

# Knitted Outerwear Times



the official publication of the  
national knitted outerwear association

386 park avenue south, new york 16, new york  
murray hill 3-7520

RECEIVED  
INST. OF TEXTILE  
TECHNOLOGY

MAR 13 1961

sweaters • swim suits • infantswear • knit fabrics • polo shirts • gloves • hosiery

LIBRARY  
CHARLOTTESVILLE, VA.

Published weekly (except for a special issue in April in New York, N. Y. Subscription price \$10 per year. Entered as Second Class Matter June 27, 1947, at the Post Office at New York, N. Y. under the Act of March 3, 1879. Copyright 1961 by the National Knitted Outerwear Association.

Vol. 30

MONDAY, MARCH 6, 1961

No. 10

## 1960 Cotton Crop Down From 1959

WASHINGTON, D.C.—The 1960 cotton crop was down about 200,000 bales from a year earlier and disappearance in 1960-61 is expected to exceed production, the Department of Agriculture reported.

The carryover in August is estimated at 200,000 bales less than a year earlier.

Disappearance during 1960-61 is estimated at about 14.7 million bales. This compares with 16.2 million bales in 1959-60 and includes declines in both domestic mill consumption and exports.

Although exports may fall below the very high level of 7.2 million bales of 1959-60, they still are expected to be relatively large. At about 6.5 million bales, they would compare favorably with the preceding four-year average of 5.8 million bales; and would be higher than during any season from the end of World War II to 1956-57.

Registrations under the payment-in-kind program through January 20 were about 5,070,710 bales, approximately 175,000 bales below registrations through approximately the same date in the preceding season.

Actual exports from August 1 through November 1960 were about 1.5 million bales, some 100,000 bales larger than in the same months of 1959.

High level exports are being maintained for the following reasons: relatively high consumption of cotton in the foreign free world, larger exports from the foreign free world to the Communist countries because of smaller crops behind the Iron

Curtain, an increase in foreign free world stocks during the current season, and larger U. S. government financing of cotton exports.

Domestic mill consumption of cotton during 1960-61 probably will be around 8¼ million bales compared with about 9 million bales in 1959-60. Indications of this decline are: Steady increases in the stock-unfilled order ratio for cotton broadwoven goods for several months, decreases in prices for fabrics for several months, large imports of cotton textiles, and lower rates of mill consumption of cotton.

Imports of cotton textiles during 1960 continued at a record high level—an annual rate of around 555,000 bales for 1960. For the first time, imports of such textiles are larger than exports which were at an annual rate of about 493,000 bales in the first 10 months of 1960.

During December 1960 the average 14 spot market price for Middling 1-inch cotton was 30.16 cents per pound. This is very close to the minimum sales

level of local sales agents and compares with 31.78 cents in 1959. In December the minimum sales price for Middling 1-inch cotton by local sales agents for CCC at the 14 spot markets averaged about 30.11 cents per pound.

Stocks of cotton held by the Commodity Credit Corporation (owned and held as collateral against outstanding price support loans) as of January 13 were about 5.2 million bales, about a million bales below those of a year earlier. About 7.3 million bales of Choice A cotton were purchased by CCC through January 13. Of this total, 5.6 million bales had been sold, most of them by local sales agents.

Although the supply of cotton lint in 1960-61 is expected to decline more than 100,000 bales from that of the preceding season, disappearance will probably decline almost 300,000 bales.

Causes for the decline in supply are a smaller starting carryover and smaller production.

## Annual TRI Meeting March 16, 17

Developments in yarn processing equipment, dyeing and synthetic fibers will be among the subjects covered in papers to be delivered at the 31st annual meeting of the Textile Research Institute to be held at the Hotel Commodore, New York City, March 16 and 17. Program details were made known by George H. Hotte, meeting chairman and director, fiber sales and service, National Aniline Division, Allied Chemical Corporation.

The March 16 session will be

conducted under the chairmanship of Dr. Norman C. Armistage, chairman of the Institute's general research advisory committee and vice president, Deering Milliken Research Corporation. Papers to be presented at this meeting will include "An Automatic Doffing System for Spinning Frames and Twisters," by Robert W. McCullough, product manager, Deering Milliken Research Corporation; "Problematics in Reactive Dyeing," by Jacques E. Wegmann, Ciba, Ltd., Basle, Switzerland, currently, Applications Laboratories, Toms River Chemical

(Continued on Page 30)

## ABSTRACTED

## Foreign Units At Knitting Show

A West German Colorplast machine will be shown for the first time in the U. S. at the Knitting Arts Exhibition in Atlantic City, N. J., April 24-28.

The Dyeboarder Colorplast Type Senior, manufactured by the Bellfour division of Eugen Bellmann GmbH, "effects the automation of hosiery finishing by scouring, dyeing, setting, finishing and drying, and is suitable for the treatment of ladies' stockings of all deniers, including crepe and stretch material," according to a company spokesman.

The exhibition, the world's largest knitting trade show, is sponsored by the National Knitted Outerwear Association, the National Association of Hosiery Manufacturers and the Underwear Institute. More than 200 U. S. and foreign firms will exhibit their products, inventions and specialized services to an estimated 15,000 persons.

## Foundation Distributes Cartoon, Baby Week Kit

The Knitted Outerwear Foundation, promotional arm of the knitwear industry, this week distributed Baby Week kits to 3500 stores and cartoon mats to 2800 weekly and daily newspapers with a combined circulation of more than five million families.

The National Baby Week promotion, which runs from April 30 to May 6, was nationally advertised in Women's Wear, Earnshaw's and Infants' & Children's Review. The kit includes

(Continued on Page 35)

# 3rd Annual NKOA Banquet, April 20, Waldorf Astoria



From spinning  
to dyeing,  
CROSS yarn is  
as fine as human  
skill and technology  
can produce

# CROSS

...the finest cotton knitting yarn

Double-Carded or Combed  
Bleached or Dyed



**Cross Cotton  
Mills Company**

MARION • NORTH CAROLINA

Jacobs and Reuben Co., 40 E. 34th St., New York, N.Y., Carl L. Miller & Sons, 808 First Nat'l Bank Bldg., Utica, N.Y., Oliver R. Cross, P.O. Box 529, Marion, N.C., Carl L. Miller & Sons, 7 Bala Ave., Bala Cynwyd, Pa., David F. Swain & Co., 105 W. Adams St., Chicago 3, Ill., J. Allison Davant, Jr., 1011 Johnston Bldg., Charlotte, N.C.

MA

Knit

Publi  
erwea  
South  
Hill 3  
cluding  
per ye  
Canada

The K  
the of  
tional  
tion, I  
dissem  
exchang  
of trac  
ment e  
try in  
tion's  
the pro

James  
Vice  
Ingr  
Isra  
Dav  
Ed M  
Irvin  
John  
Irving

Sidney  
Execut  
Nation  
Harold  
Edward

Harold  
New E  
Edward  
Herman  
Pennsy  
H. L. A  
Wester  
Edward  
Eastern  
Cleveland  
Cleveland

Charlie  
Irving

## Knitted Outerwear Times

Published by National Knitted Outerwear Association, 386 Park Avenue South, New York 16, N. Y. MURRAY HILL 3-7520. Subscription Price (including the Yearbook Edition)—\$10 per year in U. S. A. \$15 per year in Canada and foreign countries.

The Knitted Outerwear Times being the official publication of the National Knitted Outerwear Association, is exclusively devoted to the dissemination of information, the exchange of opinion, the stimulation of trade, and the general improvement of the knitted outerwear industry in accordance with the Association's basic objectives as expressed in the preamble of its by-laws.

**James F. Nields, President**

**Vice-Presidents:**  
Ingram Bergman  
Israel Cohen  
David Reinthal  
Ed Kalfahs  
Irving Louis  
John Miller  
**Irving Saltzman, Treasurer**

**Sidney S. Korzenik**  
Executive Director and Counsel  
**National Knitted Outerwear Ass'n**  
Harold Korzenik, Counsel  
Edward A. Brandwein, Admin. Sec.

**Harold Linsky, Secretary**  
New England District  
Edward B. Shils, Secretary  
Herman Lazarus, Counsel  
Pennsylvania District  
H. L. Ashworth, Secretary  
Western District  
Edward A. Brandwein, Secretary  
Eastern District  
Cleveland District  
Cleveland, Ohio

**Charles Reichman.....Editor**  
**Irving I. Silverman...Business Mgr.**

### FEATURES IN THIS ISSUE

The Circular  
Outerwear  
Yardgoods Industry. 3

British Machinery  
For Knitting Double  
Jersey Fabric..... 9

Swimwear .....17-23

New Polyamide  
Wool Shrinkage  
Control Process... 27

## Knitting Industry Primer

# Circular Outerwear Yardgoods—Part I

By CHARLES REICHMAN, Editor

CIRCULAR knitted yardgoods machines are today whirling away at a record rate, turning out an unprecedented volume of tubular outerwear fabrics for a continually expanding range of apparel end-uses. In the space of 15 years, the business of manufacturing circular-knit outerwear fabrics has mushroomed to gigantic proportions. In 1959, the latest year for which figures are available, circular outerwear yardgoods knitters turned out a whopping 85,000,000 pounds of fabric having an estimated value of upwards of \$150,000,000. In contrast, their unit volume at the beginning of the post-war period totalled less than 30,000,000 pounds of yardgoods with a dollar value of slightly more than \$45,000,000.

The field of circular-knit outerwear fabrics comprises four basic categories corresponding roughly to the end-use apparel areas in which these fabrics are principally consumed, namely:

1. Knit shirt and T-blouse fabrics
2. Women's knitted dress and suiting fabrics
3. Swimwear
4. High-pile fabrics

Before discussing the specific types of knitting equipment that are utilized in each of these fabric sections of the industry, the fibers and yarns that each consume and the manner in which the manufacturing cycle proceeds from the yarn to the finished fabric, it is important first to establish the general classes of machines that are available for the manufacture of circular-knit outerwear fabrics.

### Classification Of Machinery

The general classification of circular knitting machines for the manufacture of knitted yardgoods is shown in Table 1. The machines divide into two fundamental types — spring and latch needle. The latter can be further sub-divided into jersey or single cylinder units — machines with a single set of needles — and rib or cylinder and dial machines; namely, those with two sets of needles.

The latch needle units are the most numerous largely because they are more versatile and highly productive than spring needle machines. As a general

rule, spring needle machines are restrictive in design scope and do not possess the relatively simplified mechanisms for needle selection, essential to pattern knitting, that are available on circular latch needle machines. Moreover, since the number of feeds on these machines is limited, their rate of output is generally low.

### Spring Needle Machines

But the spring needle machine is not without its advantages. By the very nature of the fineness of the bearded needle, the spring needles machine can produce much finer gauge fabric than the latch needle unit. A further advantage of the spring needle type is that it is capable of creating and knitting a more uniform loop than is possible with a latch needle. Many knitters claim that because of this, circular-knit spring needle fabrics tend to hold their shape better than cloth made on circular latch needle machines.

In addition to plain jersey yardgoods, the circular loop wheel spring needle machine can produce jersey and fleece fabrics, eyelets, elastic, lay-in and plated cloth. The machine can also be adapted to produce knit and tuck effects and raised colored patterns.

Circular spring needle machines are manufactured in cylinder sizes from 8 to 32 inches; 26 and 30-inch diameter models are common for outerwear fabrics; models are available, however, up to 70 inches for other types of fabrics. The number of feeds are dependent upon the size of cylinder and type of feed mechanisms employed. Usually, outerwear fabrics are knitted on eight to 10 feed machines. The number of needles per inch in the cylinder of a spring needle machine is determined not by cut, as in a circular latch needle machine, but by gauge; that is, the number

of needles per inch and one-half of the cylinder circumference. Thus a 20 gauge spring needle loop wheel machine would have roughly 13 needles per inch.

### Latch Needle Machines

Although it is largely employed in the making of plain and patterned jersey fabrics, the single cylinder latch needle machine is also being used to an increasing degree for the production of loop fabrics such as terry, fleece and pile material as well as mesh-knit cloth.

Single cylinder latch needle machines are presently being made with as many as 96 feeds. More commonly, however, feeds range from 16 to 64; cylinder diameters extend from 10 inches to 30 inches wide. The machines may have either stationary or revolving yarn stands. Designs in color and stitch are produced by such devices as pattern wheels, automatic striping boxes and tuck bars or pattern placers.

Although similar in design to the cylindrical jersey machine, the cylinder and dial or rib machines operates on an entirely different principle. Instead of a single set of needles operating vertically in a cylinder, the circular rib machine has two sets of needles operating at right angles to each other, the horizontal needles radiating from a dial positioned over the cylinder. Actuation of the needles in both cylinder and dial is by means of cams constructed on the underside of these two needle housings.

Because of the extra camming arrangement necessary to actuate the dial needles, there is a limitation on the number of feeds which can be introduced on circular rib machines. However, some of the newer models of rib machines in the double jersey category have up to 44 feeds and one will soon be marketed with 48 feeds. Diameter sizes of cylinder and dial machines for outerwear are generally 28 and 30 inches, though the range may be from 10-inch to 33-inch diameters.

### Patterning Attachments

Circular rib machines produc-  
(Continued on Page 5)



# A&E COTTON ICE

## takes first place in New Knit Lines

The handsomest textures in town start with A&E Cotton Ice. This is the dyed mercerized yarn you've been hearing so much about... the nationally advertised cotton that's famous for its clear true colors, soft luster and extra-wear quality.

You'll be seeing A&E Cotton Ice in next season's best selling lines. We suggest you cast your vote for it today by calling your A&E man for details.



Cotton Yarn Division **American & E**ird Mills, Inc. Mount Holly, N. C.

*"Custom Service to the Knitting and Weaving Trades"*

New York Sales Office: 350 Fifth Avenue • OX 5-3977

Also: Amsterdam • Atlanta • Boston • Chattanooga • Chicago • Cleveland • Dallas • Detroit • Jenkintown • Kansas City  
Los Angeles • Nashville • Philadelphia • Providence • Reading • St. Louis • Havana

Combed • Carded • Durene® Mercerized • Dyed Yarns • Worsted • Orion • Outerwear Blends • Texturalized Yarn for Ban-Lon  
Garments • Industrial Sewing Thread • Circular Knit Finishing

**A&E**

*has your knitting and weaving problems well in hand*





ing outerwear fabrics may be fitted with yarn changers or striping attachments, jacquard cards, prisms or pattern wheels to achieve designs in stitch and color. The yarn changers permit throwing the different colored yarns being knitted in or out of action as desired. The jacquard cards, prisms and pattern wheels enable knitting of fancy stitch effects or repeating designs in color.

The interlock machine is a distinctive type of rib or cylinder and dial unit. Its distinctiveness results largely from its unique needle arrangement — the employment of alternate long and short needles operating in both the cylinder and dial. The interlock machine produces a double or inter-knitted 1 x 1 rib fabric which possesses a remarkably smooth handle. This fabric is produced by the alternate needles knitting and welting at alternate feeds. Interlock yardgoods ma-

chine cuts range from 10 to 26 needles per inch with 20 and 24-cut preferred. The basic machine diameter is 30-inch and the number of feeds is 32.

#### Knit Shirt Fabrics

Circular-knit fabrics for shirts and T-blouses are produced on plain and fancy single cylinder latch and spring needle machines and interlock machines. Most of the production is on single cylinder latch needle machines. Solid color and some stripe fabrics are turned out for the most part on the plain single cylinder models; patterned goods and intricately striped fabrics are produced on the fancy jersey units equipped with pattern wheels or other kinds of needle selecting devices.

The interlock machine used in the manufacture of knit shirt yardgoods should be distinguished from the interlock sweater-strip machine which also turns out knit shirting material

but on an entirely different basis. The interlock sweater-strip machine knits the fabric in continuous garment lengths each separated by a readily removable drawthread course; the garment length consisting of the body fabric with knitted-on rib trim, representing the sleeve cuffs and waistband.

The interlock yardgoods machine, on the other hand, turns out only tubular fabric which is later cut according to prescribed patterns into knit shirts. These shirts may or may not have an attached rib waistband or sleeve cuffs. If they do, these cuffs are knitted separately and are sewn or looped on to the appropriate part of the knit shirt.

There are more than 50 different models of plain and fancy single cylinder and 10 types of interlock machines available from the leading manufacturers of circular yardgoods machinery. The two principal domestic sup-

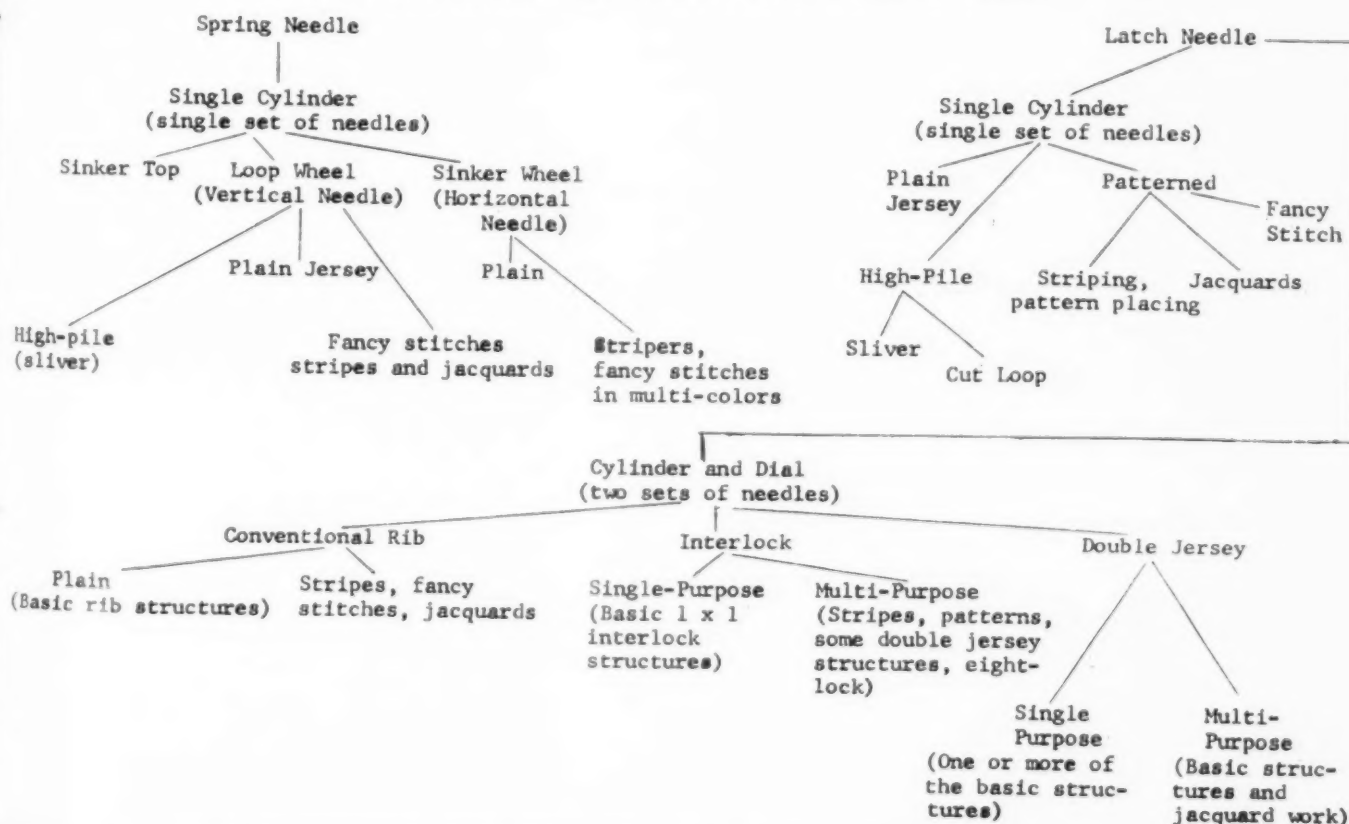
pliers of knitting machines for the manufacture of knit shirt fabrics are Supreme Knitting Machine Company and The Brinton Fabrics Division of Scott & Williams, Inc.

The basic sinker top latch needle machine for the manufacture of plain knitted shirt fabric is a 24 or 26-inch diameter machine in 22-cut with 64 feeds. For the manufacture of striped or patterned knit shirt fabric, an 18 or 20-cut unit with 24 or 26-inch cylinder and 32 or 36 feeds equipped with pattern wheel is preferred. The pattern wheels are now virtually all of the three-position type; two-position wheel machines are no longer being manufactured although there are quite a number still in place in mills. A three-position wheel actuates needles to knit, tuck and welt position.

The principal raw material in the manufacture of knit shirts is  
(Continued on Page 6)

TABLE 1

#### CIRCULAR OUTERWEAR YARDGOODS KNITTING MACHINES



cotton, although non-cellulosic synthetics, particularly the acrylics, have been gaining in importance. The chief synthetic fibers used in the relative order of their importance are Orlon and Acrilan. Use is made too of non-cellulosic fibers, especially rayon and Arnel. The various cellulosic and non-cellulosic fibers are generally blended with cotton for summerwear and some winterwear knit shirts and with wool in shirts for cold weather wear. In cotton, the yarn sizes range from 18/1 to 30/1 c.c. The cloth may be finished in widths ranging from 52-60 inches.

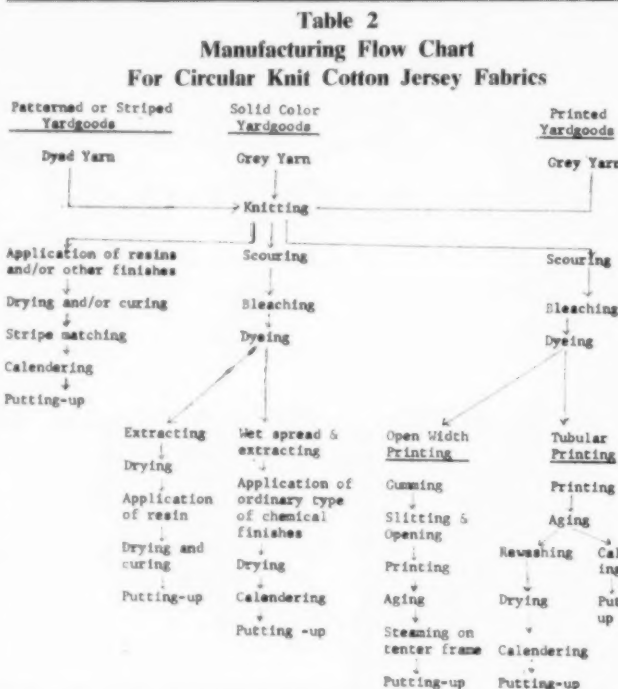
The sequence of manufacture of jersey fabrics for knit shirts following knitting is determined largely by whether the fabric is to be patterned or striped, solid color or printed. The manufacturing flow chart in Table 2 shows the various operations that are involved in the conversion of the yarn into a piece of finished circular knit fabric. The yarn may be knitted dyed or in the grey. Generally speaking, dyed yarns are used in striped or patterned goods; grey yarn for solid color and printed yardgoods. In some case, printing may also be done on dyed goods.

The post-knitting flow in the case of patterned or striped yardgoods is a rather simple one. From the knitting room the goods usually go to a dye house within the plant or to a commission dyer outside of the plant for application of shrinkage control resins and/or other finishes, such as softeners, waterproofing agents and purifying finishes. Starches or other similar agents also are applied to the cloth to ease fabric cutting and control edge curl.

Application of the various finishes, as shown in Table 2, follows scouring, bleaching and dyeing. In some mills goods are bleached in kiers and in others on a continuous basis in J-box ranges. Dyeing is invariably done in dye becks operated by roller or winch-type mechanism. Recently a few mills have experimented with beam dyeing in which the fabric is handled at the open width in an enclosed cylinder or tube.

#### Finishing Steps

The finishing of solid color yardgoods is, of course, a more prolonged process than in the



case of patterned or striped yardgoods, as can be seen from the chart. The flow breaks off into two divergent paths, depending upon whether or not the fabric is to be treated with a shrinkage control resin. If the fabric is to be processed for resistance to relaxation shrinkage, after dyeing and extracting the cloth is dried on a Tube-Tex unit and an appropriate shrinkage control agent is padded on following which the resin-treated material is dried and cured. The cloth is then steamed, calendered and put up in either tubular roll or flat fold form.

If no shrinkage control agent is to be imparted to the fabric, the cloth proceeds from dyeing to a combination wet spreading-extracting-padding operation. The material is then dried, calendered and put up into the appropriate form.

#### Printed Fabric

Most printed knitted yardgoods starts with yarn in the grey. Some printing, however, is done on dyed yardgoods — in some instances to achieve an unusual effect; in others to mask fabric or dyeing imperfections. The manufacturing flow for printed yardgoods veers off into two different directions after dyeing, depending on whether

the cloth is to be printed in open width or tubular form. There are advantages and disadvantages to both methods. The chief objection to printing the cloth in tubular form is that it must go through the printing rollers twice — first on one side and then on another. Another objection to printing knitted fabric in tubular form is the inability to apply the design properly at the edges, causing unprinted edge marks that would end up as cutting waste in garment fabrication.

The chief advantages of handling circular knit fabrics at the open width are avoidance of edge marks and concomitant cutting waste plus greater ease in maintenance of fabric width. It can be seen, however, from the chart that the printing of knitted yardgoods at the open width requires a number of preparatory operations such as slitting the cloth and gummung the edges of the fabric to prevent edge curl and to enable the cloth to remain inert during the printing operation.

After ageing, tubular printed fabric can be treated in two different ways, depending on mill practice. Some mills go right into calender and put up the cloth rewash the fabric and then dry calender and put up the cloth into the desired form.

## Yarn Processing

### Machine Changes Tow Into Sliver In One Operation

SANFORD, N. C. — A device that permits the transformation in one operation of synthetic tow into a sliver with specific and predetermined character was unveiled here by Roberts Company.

The Roberts Tematex tow transformer is said by the company to be the first machine capable of the commercial production of all types of man-made fiber tow into tops for the manufacture of normal or high bulk yarns.

Incorporating several operations heretofore requiring two or more pieces of equipment, the machine produces normal tops from normal tows, heat-stretched and high bulk tops from normal tows without the need for second operation heat relaxing, and high bulk tops from two-component tows.

The machine can either cut the continuous synthetic filament, or heat stretch it before cutting the tow into fibers of predetermined lengths of from 2½ inches to 8 inches. Normal tow can be combined and blended with heat-stretched filament before cutting, and tops of natural fibers can be introduced after the cutting zone to obtain an initial sandwich blending. Either a square cut or a variable cut diagram can be obtained.

The tow transformer also permits a productivity increase up to 15 percent more than machines presently on the market. Two million deniers can be infed, and production is up to 140 pounds per hour. It delivers to a large can of 24 inch diameter by 36 inches high, containing 40 to 70 pounds, depending on fiber.

The complete machine involves a highly effective infeed with hydraulic weighting of the gripping rolls, providing mechanical stretching of the tow; an optional heated pre-stretch zone with automatic controls; the cutting unit which performs a fracturing operation by means of a helicoidal cutter; and a single head single delivery Para-Drafter gill box to perform one

(Continued on Page 34)

anges

iver

rtion

- A de-  
nsforma-  
of syn-  
er with  
rmined  
here by

ex tow  
by the  
machine  
cial pro-  
an-made  
ne man-  
gh bulk

opera-  
g two or  
ent, the  
ual top  
stretched  
normal  
second  
and high  
nponent

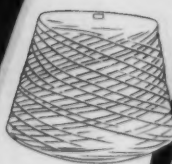
her cut  
ilament,  
cutting  
prede-  
om 2½  
mal tow  
blended  
ent be-  
natural  
after the  
n initial  
ther a  
ble cut  
d.

er also  
increase  
an ma-  
market.  
be in-  
to 140  
ivers to  
iameter  
ning 40  
ing on

ine in-  
infeed  
of the  
g me-  
ne tow;  
-stretch  
ontrols;  
performs  
means  
and a  
y Para-  
rm one  
(34)







HALLMARK OF YARN QUALITY

**CARON**

...THE PRESTIGE NAME IN

*Worsted*

**YARNS FOR THE KNITTING INDUSTRY**

*Since 1916*

**CARON SPINNING COMPANY**

Rochelle, Illinois \* Eastern Plant: Robesonia, Penn. \* New York Sales Office: 489 Fifth Ave.



SHAKESPEARE  
The Caron Sheep



# 7A

A competitive yarn with an added PLUS factor that makes it more than "just a little bit better" — and therefore the choice of discriminating knitters.

Our quality secret? The *blend* . . . our very own, developed with care, and protected at every step because we buy our own wools, and make our own tops. The yarns which result are consistently high in quality, and superior in every respect.

## CARON SPINNING COMPANY

Rochelle, Illinois • Eastern Plant: Robeson, Penn. • New York Sales Office: 489 Fifth Ave.



MA

Ya

B

W  
mac  
with  
taile  
cons  
more  
the  
fabr  
ence  
spec  
are  
since  
a ra  
chin  
inco  
mak  
of fa

C  
doul  
wear  
opm  
Mell  
In c  
sey  
ever  
num  
sible  
in t  
cycl  
revo  
driv  
and  
in b

In  
ric  
long  
nate  
usua  
esse  
need  
long  
long  
abo  
The  
that  
need  
num  
cycl  
toget  
feed

T  
prim  
inter  
lock  
As  
cour  
ever  
rics  
strip  
proc  
colo  
and



## Yardgoods Equipment

## British Machinery For Knitting Double Jersey—Part I

By J. B. LANCASHIRE  
Senior Lecturer, School of Textiles  
Leicester College of Technology

WITH THEIR very long experience as builders of interlock machines covering a period that approaches half a century, firms within the Bentley group of companies possess a wealth of detailed knowledge of the finer technical points relating to the construction and use of cylinder and dial latch needle machines, more specially in reference to the manufacture of fine gauge fabrics. This knowledge influences policy in the light of the specific uses to which machines are likely to be applied and, since these uses are very varied, a range of different types of machines is offered. Refinements incorporated in these machines make for structural superiority of fabrics and high output.

Chronologically, insofar as double jersey fabrics for outerwear are concerned, the development begins with the Wildt-Mellor Bromley Model 4/LM. In common with all double jersey machines this model has an even number of feeds and the number agrees as closely as possible with the number of inches in the diameter of the needle cylinder. The needle cylinder revolves clockwise, the dial is driven through wheel gearing and there are double cam tracks in both cam box and cam plate.

Interlock or double knit fabric is produced by setting out long and short needles alternately in cylinder and dial, usually (although this is not essential) with the short dial needles immediately above the long cylinder needles and the long dial needles immediately above the short cylinder needles. The camming is arranged so that the long cylinder and dial needles work together at the odd numbered feeds and the short cylinder and dial needles work together at the even numbered feeds.

The Model 4/LM is intended primarily for making ordinary interlock in this way, with interlock gating and delayed timing. As a rule, the same kind and count of yarn is supplied at every feed but interlock fabrics having single wale vertical stripes on both sides can be produced by using yarn of one color at odd numbered feeds and yarn of a different color

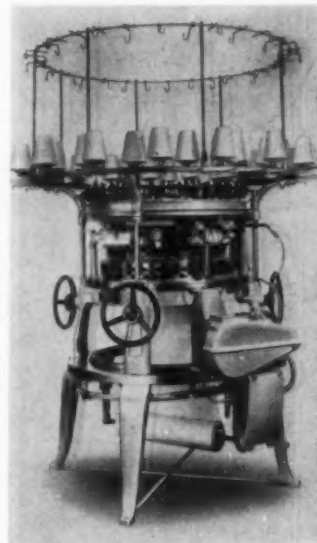
at even numbered feeds. Knobs situated on the upper side of the cam plate enable the dial clearing cams to be moved individually into tucking position, thus enabling tuck interlock fabrics to be made. Subject to the condition that the total number of feeds is a multiple of six, single pique fabric can be produced by withdrawing the dial clearing cam to tucking position at every third feed and readjusting stitch length at the tucking feeds.

For the yardgoods trade, Wildt-Mellor Bromley Ltd. now offers Model 4/LM/7. Both cylinder and dial have verge bits, feed wheels are fitted, and interchangeable cams can be provided for non-knitting on the dial and for advancing the needle raising movement in the cylinder when the dial is displaced to give synchronized timing. Thus, provision is made for producing knit-miss bourrelet and eightlock fabrics, as well as ordinary interlock, single pique and knit-tuck bourrelet. While bourrelet fabrics can be knitted by accumulating tuck loops on the dial, these tuck loops only

add unnecessary weight and fabrics of equally attractive appearance and better value are obtainable by non-knitting on the dial.

Next in chronological order of development is the 6/L/6 machine which is built with 30-inch diameter needle cylinder and 24 feeds. It is within the scope of this machine, in gauges 16 x 16 and 18 x 18, to produce double pique fabrics. Rib gating is involved and certain dial cam sections have to be made interchangeable for this purpose. The interchange of dial cam sections at feeds two and three, six and seven, 10 and 11, etc., fulfils the necessary condition of having odd and even sections in pairs so that long needles knit at two consecutive feeds, short dial needles knit at the next two feeds, and so on, alternately.

Whether French or Swiss double pique is knitted depends upon the choice and kind of cylinder needle to be used. Only one kind is required and it may be either long or short. If long cylinder needles are used they knit at odd-numbered feeds and, assuming that long dial needles knit with long cylinder needles, the long dial needles knit one course along with all the cylinder needles and one course without cylinder needles at feeds 1 and 2, respectively, dial section 3 being in position at feed



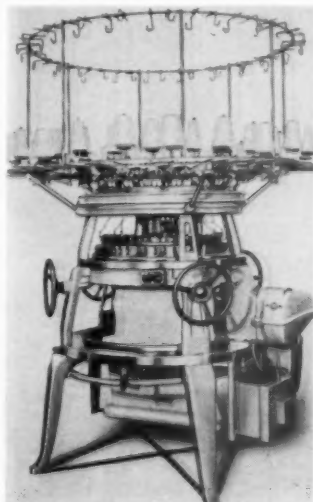
Model 4/RD

2. Short dial needles knit along with long cylinder needles at feed 3 (dial section two is at feed 3) and short dial needles knit without cylinder needles at feed 4. This four-feed cycle completes the knitting action for Swiss double pique.

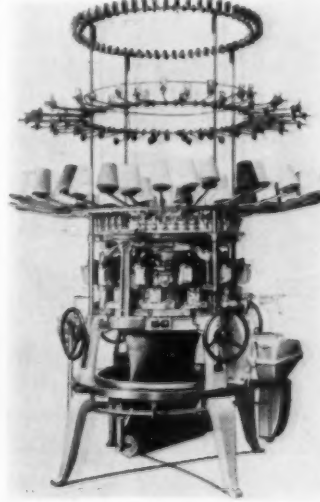
When the cylinder is filled with short needles, knitting takes place on long dial needles only at the first feed; on long dial needles and all cylinder needles at the second feed; on short dial needles only at the third feed; and on short dial needles together with all cylinder needles at the fourth feed. This four-course cycle is the basis for French double pique.

Both kinds of double pique fabric can be knitted with either synchronized or delayed timing. Other conditions being the same, fabric knitted with synchronized timing has a greater tubular width than that knitted with delayed timing but there is an advantage in using delayed timing in certain circumstances inasmuch as it gives less trouble with knots. Methods of timing being alike, French double pique fabric comes from the knitting machine substantially wider than Swiss double pique fabric but the textural structure of the latter is generally clearer and more attractive in appearance.

(Continued on Page 11)



Model 6/LM/6



Model RGS/2



## fallspun's *Pride-in-Product* is shipped with every cone . . .

Every cone of your order for Fallspun quality yarn is shipped *custom-wrapped* . . . and for good reason. It comes to you from a company with over a half-century's experience . . . proudly produced by skilled craftsmen . . . approved and passed through every step of yarn manufacture. Even the wrapping tells you: whatever your needs, Fallspun is your best yarn investment.

FALLSPUN YARNS are produced from all fibers and combinations of fibers including Vicuna, Guanaco, Alpaca, Cashmere, Angora, Mohair and all the fur fibers, wool and synthetics of every type and description.



**FALLS YARN MILLS, INC.**

Established 1904

WOONSOCKET, RHODE ISLAND • POplar 9-9880

### SELLING AGENTS:

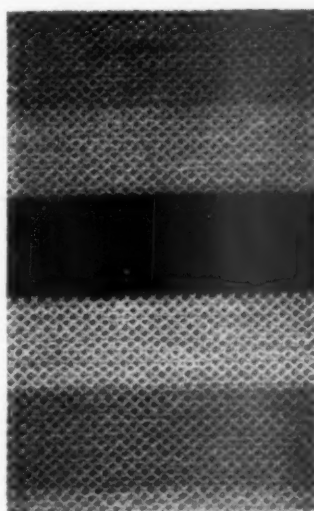
Stanley Porter, New York City • Pfizenmaier & Kirkland Co., Boston Mass. • W. J. Miller, Philadelphia, Penna.  
C. L. Miller & Sons, Utica, N. Y. • Anthony, Cheatham & James Yarns, Inc., Burlington, N. C. • D. F. Swain Co., Chicago, Ill.

ance than the textural structure of the former.

In order to develop the best characteristics of the different double jersey fabrics close attention must be given to all aspects of knitting that affect loop length and in this connection great importance attaches to the use of mechanism for controlling the rate of feed of yarn. The mechanism now applied to Wildt-Mellor Bromley double jersey machines consists of the frustum (part of cone after top portion has been removed) of a cone around the specially covered surface of which the yarn is guided to the extent of an arc that subtends an angle of about 300° at the center. The feed unit works in conjunction with a stop motion dropper which operates whenever a loose end of yarn unwinds from its package, in the event of yarn breakage and if, for any reason, the rate of feed of yarn is excessive.

To combine the high production of the 6/L/6 machine with much wider scope for the use of color than is otherwise available, Wildt-Mellor Bromley Ltd. offer Model 6/LS/6, which is equipped with 18 yarn changing units. Combined with independent operation of each yarn finger there is a separate cutting and trapping mechanism with individual stop-motion device.

When producing double jersey fabrics that entail yarn changing at every feed, the working complement of feeds is



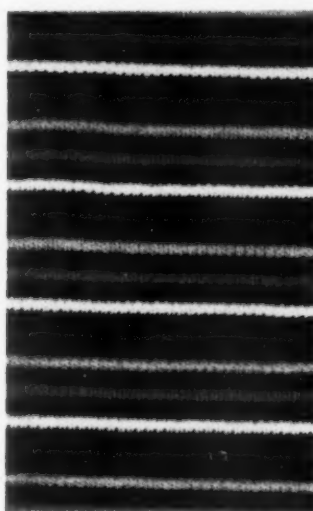
Horizontal striped single pique fabric made on 18 x 18 Wildt-Mellor Bromley 5/RGS/2 machine. Four colors changed in order at every feed after every revolution of the machine.

unavoidably reduced to 18, but within the range of fabrics incorporating horizontal stripes there are many, such as bourrelet, that can be made on 24 feeds, since yarn changing is confined to those feeds at which knitting takes place on cylinder needles only.

Model 6/LM/6 is a streamlined super multi-feed machine combining compactness of construction with features which are designed to promote high working efficiency in the production of fault-free fabric. By elimination of all extraneous fittings many potential lint catching surfaces have been removed.

A new camming arrangement has been adopted to furnish accommodation for many more feeds than have been fitted hitherto. The standard machine with needle cylinder 30 inches in diameter has 44 feeds. Yarn feeding points are distributed about two inches apart around the machine except at the front where there are doors for removal and replacement of needles. The doors are built in two parts and in the space adjacent to them there are cams that lift the cylinder needles slightly so that fabric can be hooked on them more easily.

Interchangeable cams are provided to enable tucking to take place in the dial to produce single pique and other tuck interlock fabrics and by substituting a cylinder tucking cam for the



Horizontal striped bourrelet fabric made on 20 x 20 Wildt-Mellor Bromley 6/LS/6 machines 72 course repeat. It comprises of 12 ground courses and six knit-miss colored courses, four times repeated.

standard cylinder clearing cam at every third feed. Texi-pique fabric can also be made. Run-through cams can also be provided for the manufacture of knit-miss bourrelet fabrics.

The fabric drawing-off mechanism is of the Neverest type and it incorporates a compensating attachment to maintain constant pressure on fabric, such as bourrelet, which is of variable thickness. A release handle is available for opening the rollers and a knob, conveniently situated on one of the legs of the machine, has adjustment for varying the rate of take-up. The bottom half of the drawing-off mechanism is detachable and can be fitted with either batch rollers or fabric can, although the use of the latter is not recommended, since it involves more handling of fabric. So that fullest advantage can be taken of the high production of the 6/LM/6 machine, it has extra long legs to provide accommodation for very large rolls of fabric.

#### Machine Features

Features of the 6/LM/6 machine which are also found on all other double jersey types include self-contained motor; panels with push-button control for stopping, starting and inching; device for automatic oiling of the cam tracks; and hand wheels which are free when the machines are driven by power. Exclusive to the 6/LM/6 machine, insofar as they rank as

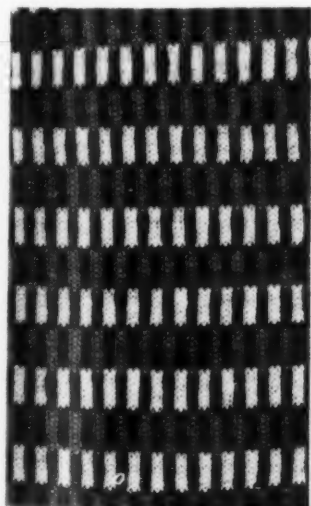
standard equipment, are the following:

- A clearer to keep the top surface of the came box free from line.
- Six signal lights.
- Fluorescent strip lighting to illuminate the knitting heads.
- Inside fabric light.

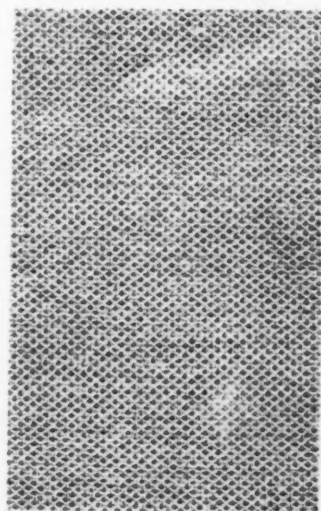
The speed at which the 6/LM/6 machine can be run to give optimum output depends upon the kind of fabric that is being made and the quality of the knitting yarn. Making full allowance for these variable factors it is generally possible to average 18 revolutions per minute, but substantially higher speeds can be attained when knitting synthetic yarns and wool yarns of high quality. The small additional cost of re-winding yarn and applying wax (preferably sperm oil) during the process, is more than offset by reduced knitting troubles and the production of better fabric. In view of the possibility of knitting more quickly when circumstances are favorable, it is well worth while to fit variable speed motors to the machines.

Another Wildt-Mellor Bromley machine, Model 4/RD, offers exceptionally good facilities for changing from one kind of fabric to another. It is a 30-inch diameter machine with 32 feeds. In the cylinder, use can be made of two types of plate needles, these being of the small overall length and single butted. As the butts lie at different distances from the needle heads, it

(Continued on Page 38)



Eightlock or 2 x 2 interlock fabric knitted in four colors on 20 x 20 machine 30 feeder repeat pattern. Wildt-Mellor Bromley 6/LS/6.



Swiss double pique made on 18 x 18 Wildt-Mellor Bromley 4/RD machine.



# Ban-Lon<sup>®</sup>

knitwear gives you  
**4** profit pluses  
 for better selling...  
 customer satisfaction



**FOR YOUR PROTECTION**  
 Fabrics and garments which carry these trademarks  
 must pass rigid quality and performance tests.

For further  
 information, contact  
 your source  
 of supply or write  
 "Everglaze"  
 Marketing Division,  
 P. O. Box 189,  
 Wilmington 99,  
 Delaware.

## Quality Control Program

For your protection, all fabrics and garments which carry the famous "Ban-Lon" trademark must undergo and pass rigid tests for quality and performance

## Skilled Technical Staff

Technical help from the Bancroft Company and its licensees is readily available to give you assistance and advice in carrying out your "Ban-Lon" program

## Nation-Wide Marketing Program

Trained marketing personnel visit stores throughout the country regularly to acquaint merchandise managers, buyers, and sales personnel with the unique advantages of "Ban-Lon" fabrics and fashions, as well as with the latest developments

## Unique "Ban-Lon" Properties

The permanent crimp in the "Textralized" yarn assures:

- soft, luxurious hand
- excellent stability
- resistance to pilling, wrinkling
- remarkable absorbency
- sharp, bright colors
- added bulk with less weight

The permanent crimp in the yarn puts the plus in Ban-Lon fabrics and garments

## Mill News

### Allied Himalaya Division Starts Under Bobrow

Allied Knitting Mills has taken over key production and sales personnel of the bankrupt Himalaya Knitwear Co., Inc., for a new subsidiary, Himalaya Sportogs, Inc.

The new division, under the aegis of Albert S. Bobrow, former executive sales manager of the defunct company, will open a line this week of men's traditional and classic sweaters and sportswear at \$7.50 and up wholesale and \$10.95 up retail.

### Hanes, Underwear House, To Sell Wool Sweaters

The P. H. Hanes Knitting Company, underwear manufacturers, will offer a line of wool sweaters this fall under the label Pro's Choice By Hanes.

The company announced that it will distribute the garments the same way as it does its underwear—through franchised distributors. The retail price will range from \$6.95 to \$14.95.

The label is the same as that on its line of cotton knit goods that retails for \$5.

The sweaters will be pre-washed, Duron-processed and dyed with milling colors. They will come in S, M, L, and XL in thirteen British accent styles, including Continental style and cadet collar cardigans and sleeveless, V-neck and crew neck pullovers.

### Kingston Retains Schaller Under Pension Program

KINGSTON, N. Y. — Co-workers of Kingston Knitting Mills, Inc., honored Otto Schaller, Sr., in February, on the occasion of his retirement from the company, after 25 years.

Robert E. Davis, president, and Carl Pauker, treasurer, praised Mr. Schaller for his loyalty and long service. At the dinner he was presented with a gift by his co-workers, and a 25 year service pin from the company.

Mr. Schaller is the first long time employee to retire under the company's pension plan which was started in 1959. He

worked for Kingston as a knitting mechanic and machinist and was, for many years, the department supervisor.

His son, Otto Schaller, Jr., has been employed at the mill for 21 years, also as a knitting machine mechanic.

### Ripon Knitting Names New York Sales Rep.

RIPON, Wis.—The appointment of William J. Hyde as sales representative for metropolitan New York including the boroughs of Manhattan, Bronx, Brooklyn and Queens was announced by Robert G. Rashid, vice president and sales manager of the Ripon Knitting Works.

### Award Sweater Contract To Manchester Knitting

PHILADELPHIA, Pa.—The Military Clothing and Textile Supply Agency has made an award under QM-485 for 59,652 men's dark blue wool sweaters to Manchester Knitted Fashions, division of ECM Corp., Manchester, N. H., at \$2.8864-3.2472. Eight firms had competed for the contract.

## Wholesaling

### Wholesaler Heyman Is Speaking Volumes

CHICAGO, Ill. — What makes a wholesaler tick?

Volume, according to H. D. Heyman, president of Heyman Distributing Co., a big streamlined firm specializing in—among other lines—knitted outerwear.

"Volume is the answer—what else is there?" Mr. Heyman said recently in his office in the Windy City. "You can cut your expenses, but you reach a point of saturation with streamlining the efficiency of your organization. You have to expand to greater sales rather than stay status quo and cutting costs."

The firm has not neglected streamlining since its founding in 1912. Among its innovations have been specialized selling with as many as three salesmen calling on one customer, modernized equipment like a conveyor system for shipping and a warehousing operation that is

(Continued on Page 15)

## EXIT EXAGGERATED BULK

In the good old days of the Model T and the Stanley Steamer, our mill made heavy Shaker and Jumbo Knits, the predecessors of the 1959-60 bulkies. They were rugged, cumbersome and awkward, compatible with ill-fitting isinglass side curtains and hand-cranking in the snow.

Today, for 1961 living, we offer a collection of men's sweaters which combine color harmonies, novel fiber blends and interesting textures, graceful in drape and comfortable in weight.

Exaggerated bulk no longer serves a useful function, detracts from modern styling and adds needlessly to the cost.

Please ask for convenient time to view our fall line.

### The Lion Knitting Mills Co.

3256 West 25th Street ■ Cleveland, Ohio

Designers and Creators of High Quality Sweaters and Sweater Shirts for Men

DISTRIBUTED TO THE BETTER STORES BY SELECTED KNITWEAR SPECIALISTS

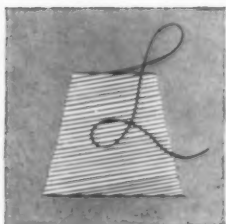
# 8,929,962

for **1**

A single 3 denier Turbo-Orlon sweater will contain almost nine million individual fibers. Each individual fiber contributes to the superior loft and hand of the sweater . . . when it's made of Turbo-Orlon processed by the exclusive Perlok System.

Developed by J. L. Lohrke, this system improves synthetic tow by special heat stretching, breaking and relaxing processes . . . assures the ideal High Bulk yarn for bulky, interlock, jersey and full-fashion knitted garments.

Whatever sweater characteristics you require—if it's made from Turbo it's made from the number 1 sweater yarn.

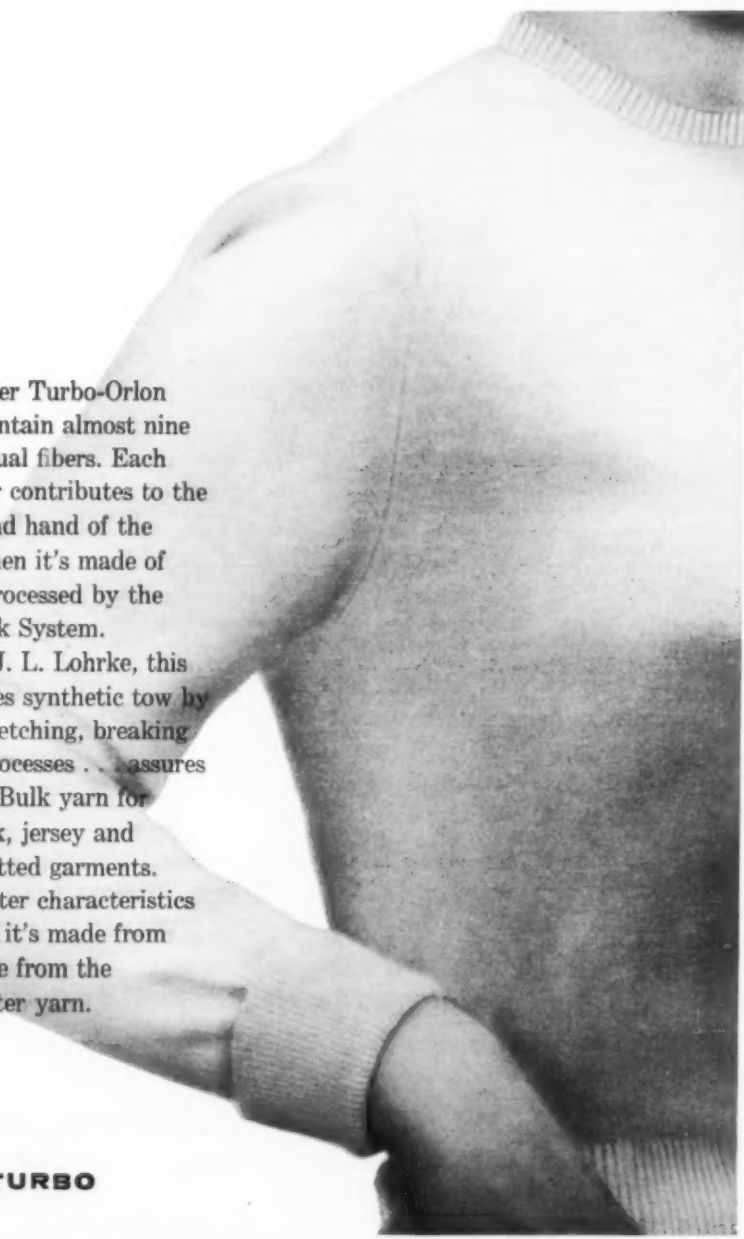


**LOHRKE / TURBO**

## **TURBO-ORLON**

*Contact a licensed Turbo mill . . . over 50 in United States and Canada*

**J. L. LOHRKE COMPANY / 3 PENN CENTER PLAZA • PHILADELPHIA 2, PA.**





90 percent mechanical. The firm helps retailers stave off the big chains with information, advertising and promotion, and it holds weekly clinics for its salesmen. But volume is what counts, Mr. Heyman insisted.

With his own volume running high, as usual, Mr. Heyman was overflowing with optimism. "Inventories are low and they'll continue to be low for the entire first half of 1961," he said. "But this is a healthy condition and the industry shouldn't suffer as much as other industries which have over-inventories."

## Cotton Still King, Sales Agent Says

ATLANTA, Ga.—An energetic Southerner named James Reeves firmly believes that cotton is still king of knitwear. As president of the Cohen, Reeves & Shepard Company, he is in an excellent position to know.

Cohen, Reeves and Shepard are manufacturers' agents covering sixteen states in the South and East. They handle outerwear and underwear knit goods for men.

Mr. Reeves said rayon has slipped recently in favor of pure cotton knitwear — or cotton blended with the more expensive synthetics. "Sportswear in cotton is particularly sought after," he pointed out. "The natural absorbency of natural cotton makes it by far the more desirable fiber for strenuous activity."

'Blends' of cotton and certain synthetics, he believes, produce an unbeatable combination of strength and softness with absorbency.

Mothers buy knitted cotton outerwear for their children to cut down dry cleaning bills.

In the price brackets Mr. Reeves handles, there is very little use of the once popular rayon shells and, as far as he is concerned, pure or fortified cotton is taking over.

Known as the Max Kessler Company until Mr. Kessler's death last year, firm has been in business 25 years. Five salesmen sell in a 16-state territory for Benhan, Griffin-Jaco, Herbert Associates, Landing Knitting, Phoenix Manufacturing and Kam Manufacturing. Most have been with Cohen, Reeves & Shepard for more than 20 years.

The salesmen often sit in on a manufacturer's planning session. They are able to advise on styling, color and pricing policies.

"Our salesmen are instructed to go right to the mill — not through our home-office—when a problem arises," Mr. Reeves said.

Almost all of the mills represented produce unbranded items. Packaging is an individual basis. Some of the large retail outlets buy merchandise in special store brand packaging. Occasionally, to avoid a competitive situation in a specific market—usually a small area—the same products will be sold in different locations under distinct, non-competing labels.

The firm does no warehousing, carries no inventory and does no invoicing.

By basing himself in Atlanta, Mr. Reeves feels he is closer to the selling scene, an advantage over his New York City based competitors. "We can see our customers more frequently, service them better and feel we can respond quickly to market trends," he said.

The three principals in the company are active salesmen who make regular calls. Two other men fill out a sales force that has remained remarkably stable over the years.

"We are fortunate that all of our men had knitwear selling or related experience before they joined us," Mr. Reeves said. Training consists of allowing a new man to spend several weeks in the office to get the overall picture and several weeks on the road with at least two other salesmen.

All the salesmen live in Atlanta. "We see each other all the time so we have no need for printed bulletins or lengthy memos," Mr. Reeves said.

Seasonal changes throughout most of the South make for a more difficult itinerary planning problem than in other areas. There is no tried and true way to predict an extremely cold winter, for example. Most buyers try to go along with the idea that winters in the South are always mild, which they are not. Last year, ice and snow-storms reached down as far as central Georgia. But it did the knitwear industry little good because they were well into the spring and (Continued on Page 17)



## BRING YOUR COORDINATES PROBLEM TO KENT!

A constantly increasing number of sweater creators are turning to Kent Manufacturing Company to create coordinates that sell! At Kent you will find a tremendous selection of quality loomed plain flannels, fancy woolsens and worsteds for skirts, in a fabulous array of colors and textures. Designed with the look active Americans love... with the performance they demand. It will be well worth your while to see them today!

## KENT WOOLENS

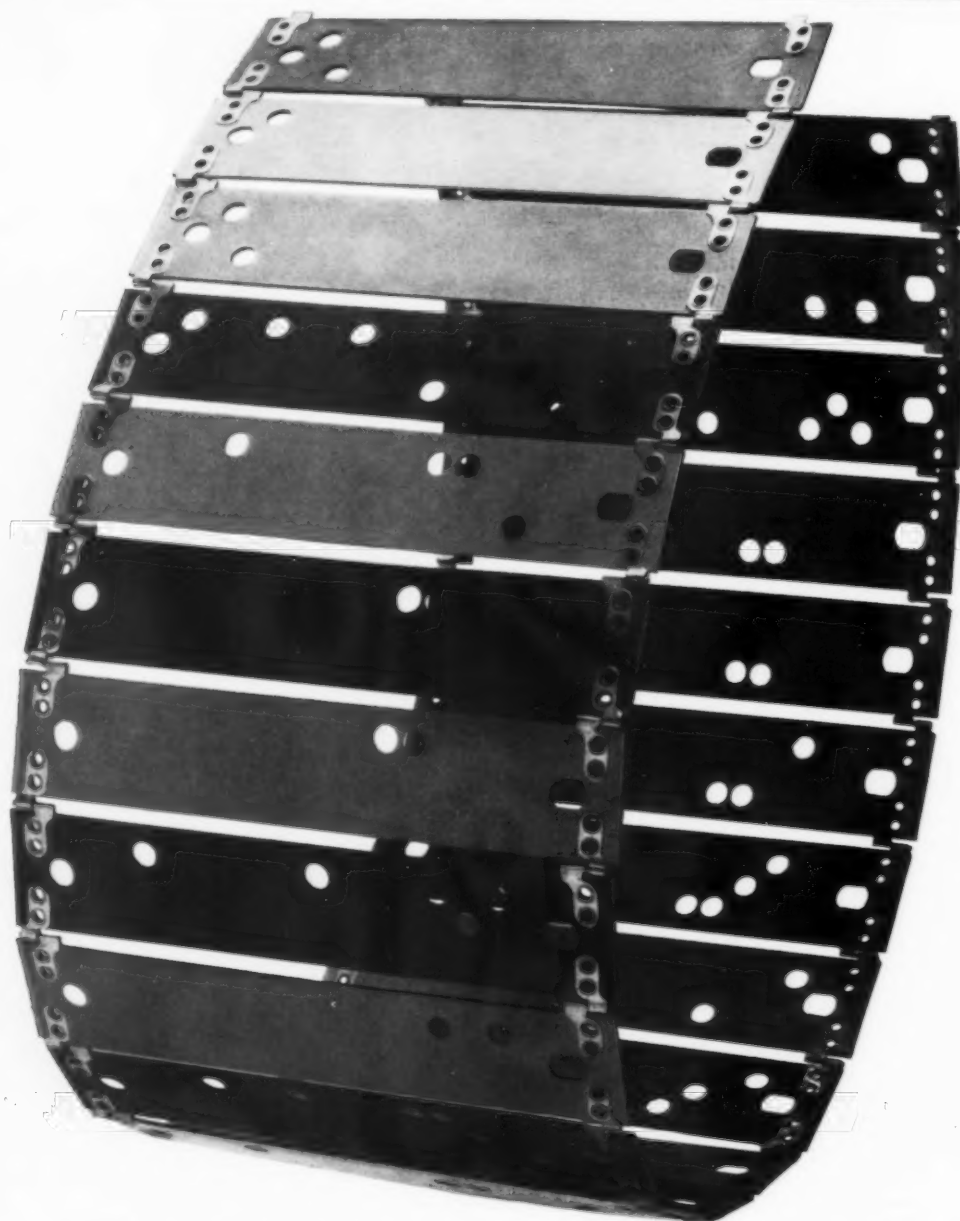
Kent Manufacturing Company

119 W. 34th Street, New York, N. Y., BR-9-5438

*Distinctively  
American*



A product of 119 Years  
of American craftsmanship  
and ingenuity.



## What are the chances of success for this sweater?

(Excellent, if it's made of Acrilan\*)

Take the uncertainty out of the sweater business! When you start to knit, knit with **100% Acrilan acrylic fiber**. You can knit Acrilan in the greige and then piece-dye on demand: Move in any direction that the trend demands. Take advantage of any color fad. Keep your inventory flexible.

Whether you knit in the greige or not, the fabulous benefits of Acrilan in your sweater still apply. Sweaters made of Acrilan are

machine-washable, machine-dryable. Keep their original attractive shape, luxurious hand, and brilliant colors. Sweaters made of Acrilan carry the big red "A"-Acrilan trademark. Nine out of ten people know and look for it. It sells retailers, too.

Sweaters made of Acrilan did amazingly well in 1960, a year when most of the industry's sales were off. In 1961, they will do even better.

*Chemstrand has licensed this "A"-Acrilan trademark as an ingredient trademark for those fabrications that provide utility, styling and consumer value. In order to obtain a license to use this trademark, the fabrications must meet certain rigid specifications as established by The Chemstrand Corporation.*

**A**  
ACRILAN  
ACRYLIC FIBER  
Reg. T.M. of Chemstrand

THE CHEMSTRAND CORPORATION • GENERAL SALES OFFICES: 350 FIFTH AVENUE, NEW YORK 1, N. Y.

DISTRICT SALES OFFICES: 350 Fifth Avenue, New York 1; 34 Overwood Road, Akron, Ohio; 197 First Avenue, Needham Heights, Mass.; 129 West Trade Street, Charlotte, N. C.; California Office: 707 South Hill Street, Los Angeles 14 • Canadian Agency: Fawcett & Co., 34 High Park Blvd., Toronto, Canada • PLANTS: ACRILAN® ACRYLIC FIBER—Decatur, Ala.; CHEMSTRAND® NYLON—Pensacola, Fla.

Chemstrand makes only the fiber; America's finest mills and manufacturers do the rest.

summer lines by the time the storms hit.

The South is from one season to one year behind the rest of the country in the acceptance of new fashions. Mr. Reeves offers the explanation that fashions—particularly in sportswear—originate in the West and East and are imported into the South.

Despite this, men's wear has shown a surprising trend toward style and color in recent years. Tans, according to Reeves, have faded in the South. Blues went down sharply for a while but seem to be coming back. Currently greens and shades of gold-green are popular.

Generally speaking, the South doesn't go in for extreme color combinations in Mr. Reeves' trade.

In price, Mr. Reeves finds people more selective. "They look more for quality and are willing to pay slightly more for it," he said.

The expanding economy in the South holds promise for soft goods. People are moving into the area in greater numbers. "Maybe we can't sell them all the bulky winter clothing that we could elsewhere," Mr. Reeves said. "At least we have plenty of knitted sportswear and a great variety of knitted sports shirts to sell him. And down here he wears more of them more often."

### Swimwear

#### Ohio Winter Is Icy, But Swimwear Sells

CLEVELAND, O.—Despite one of the coldest winters in many years in northern Ohio, the pre-season swimwear sale was reported brisk. Large size garments were in demand, an indication to buyers that elderly women were buying for southern travel or indoor pools in the North. The average purchase was about \$14.

Most buyers believe that purples and shocking pinks will sell well in the summer season and that design rather than functional values will draw customers.

Wool knits are selling. Most sales are of one-piece suits but wool knits are generally two-piece. Pleated skirt flares are popular.

A knit manufacturer, Marc

Frisch, Frisch Knitting, reported a return to wool from Orlon. Italian types and coordinates are in demand.

#### Hawaiian Swim Suits Shown In Portland

PORTLAND, Ore.—Nani of Hawaii swim suits and sun fashions were displayed in the auditorium of the new Lloyd Center, world's largest shopping center, in a show sponsored by Wide Travel, a local travel agency.

Hawaiian entertainers, flown here by Pan American Airlines furnished the background, and a film of Hawaii was shown.

The Hawaiian-manufactured garments by Nani, a Jantzen subsidiary, also were modeled recently at a luncheon at Trader Vic's at the Benson Hotel.

The cold shoulder look, with only one shoulder strap, and Polynesian prints in cotton were featured.

Oriental jewelry, flowers in the hair, and flower leis underscored the exotic effect.

#### Jantzen's Meetings Introduce Fall Lines

PORTLAND, Ore.—Jantzen Inc. is holding regional sales meetings up to March 2 to introduce its fall sweater, play clothes and accessory lines for 1961.

Executives are coming to the meetings in teams for sessions on advertising, sales promotion and merchandising.

A combined meeting for sales representatives from the Northwest and Southwest regions was held at the Broadmoor Hotel in Colorado Springs, Colorado, February 20 to 22. At the same time, a meeting for the Southeast region was held at the Dinkler Plaza in Atlanta.

The Northeast region began its meetings February 27 at the Sheraton East Hotel in New York and will continue to March 1. The Midwest meeting will be at the Edgewater Beach Hotel, Chicago, February 28 to March 2.

\* \* \*

PORTLAND, Ore. — Ron McCreight, vice-president in charge of the international division of Jantzen Inc., participated in the sales convention of Jantzen Australia Ltd. during the week of February 13, in Sidney.

What makes the  
difference in  
**FUR BLENDS?**  
Finishing by  
"the Big J"

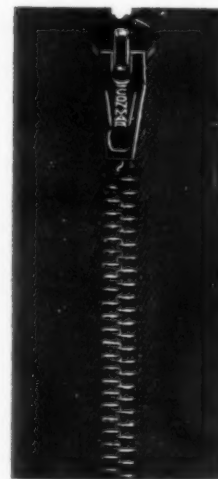
The difference between  
an ordinary finished  
product and a garment  
that glows with luxuriant  
softness is the difference  
between ordinary  
processing . . . and dyeing  
and finishing by Jefferies.  
Delicate even color . . .  
uniformity in the size of  
the garment . . . a hand  
that brings out the most  
desirable qualities of the  
fur . . . rich new loft.  
Let Jefferies do the job  
and you'll be delighted  
with the results.

**jefferies**  
Processors, Inc.

3344 Frankford Avenue  
Phila. 34, Pa.  
GARfield 6-5035  
In the South:  
Albermarle, N.C.  
YUkon 2-4616



specifically  
designed  
for  
swimsuit  
fashions



# LADY CONMAR®

For real bathing suit zipping security use LADY CONMAR! LADY CONMAR is flexible and fashion-right... super-strong but lightweight...

perfect for the new swimsuit fabrics. Its holding power is terrific... its zipping performance is smoothness itself. The rust-proof

nickel-silver metal and components have a double coating of Conmar's special formula enamel, exactly dyed to match

your fabric color. And the slider locks positively and automatically... the pull resists twisting off. Be on guard

... let LADY CONMAR give your swimsuits the zipping protection they need. Call Conmar today!



## CONMAR ZIPPERS

CONMAR, NEWARK, N. J. • FACTORIES IN NEWARK, N. J., CHICAGO, ILL., LOS ANGELES, CALIF. AND GREENWOOD, MISS.  
(SERVING THE SOUTH)—SALES OFFICES AND WAREHOUSES TO SERVE YOU LOCATED IN: ATLANTA • BALTIMORE • BOSTON  
CHICAGO • CINCINNATI • CLEVELAND • DALLAS • GREENSBORO, N. C. • GREENWOOD, MISS. • KANSAS CITY, MO. • LOS ANGELES  
MINNEAPOLIS • NEWARK • NEW ORLEANS • PHILADELPHIA • ROCHESTER • SAN FRANCISCO • ST. LOUIS • SYRACUSE



# Swimwear

## Cabana Matches Swim Suits With Tunics, Culottes

Coordination in depth is an underlying theme of the 1961 beach and sportswear collection of the Cabana Beachwear Co. Designed by Pembroke Squires, nearly all of the woven cotton swim suits are segments of larger groupings including poolside dresses, beach coats, many types of wraps and various lengths and styles of pants—from Jamaicas to trouser-length culottes. Although Cabana's swimwear collection also encompasses swim suits knitted of stretch nylon, Helanca and an Orlon and Lastex blend, the coordinates fall mainly within the cotton grouping. Here it is more feasible to manipulate the identical fabric into several garments.

Black and white is a big color theme this year and it appears in solids (top and bottom), stripes, polka dots and

various check treatments, primarily in the woven cotton numbers.

On one swim suit, black and white jacquard checks are atop solid black trunks and on another a dalmation print of abstractly placed and randomly sized polka dots, designs a boy leg suit with a cinched midriff section knitted of Helanca.

Eagle's-eye pique is a fabric employed on several suits also in the black and white grouping. In solid color is a boy leg suit with a belted back and a two-button front detail. Another is a princess suit with slightly flared skirt and high neckline. A white overblouse in eagle's-eye pique is worn over black boy leg trunks in a two-piece suit.

Flowers pattern many of the cotton suits including a two-piece with morning glory theme, a V-front and back halter suit with shoulder ties designed in many colorful flowers and a one strap boy leg with shoulder tie. There is also a boy leg suit that is sashed at the waist and patterned in a rose print.

Exotic prints on skirted sarong suits include batiks of orange, yellow and green and turquoise, orange and green among other equally unusual color combinations. A Persian print colored and patterned like a vivid mosaic is also a skirted sarong and, like the others, is part of a coordinated sportswear-swimwear grouping.

Textured cottons include an embroidered boy leg suit that has a tapestry-like effect. Welt seaming adds further detail. Also, embroidered, textured polka dots appear on a boy-leg, and on Crazy Quilt are embroidered and closely placed, multi-color squares on a white background.

Elegant, off-white cotton lace placed over a color on a boy leg suit with welt seam detailing is available in many colors. There is also a richly textured cotton tussah boy leg suit.

Many of the stretch nylon suits fall within another Cabana theme—solids and stripes. Horizontal pin stripes decorate a suit with one shoulder strap, a striped bodice trim and bow stands starkly against the rest

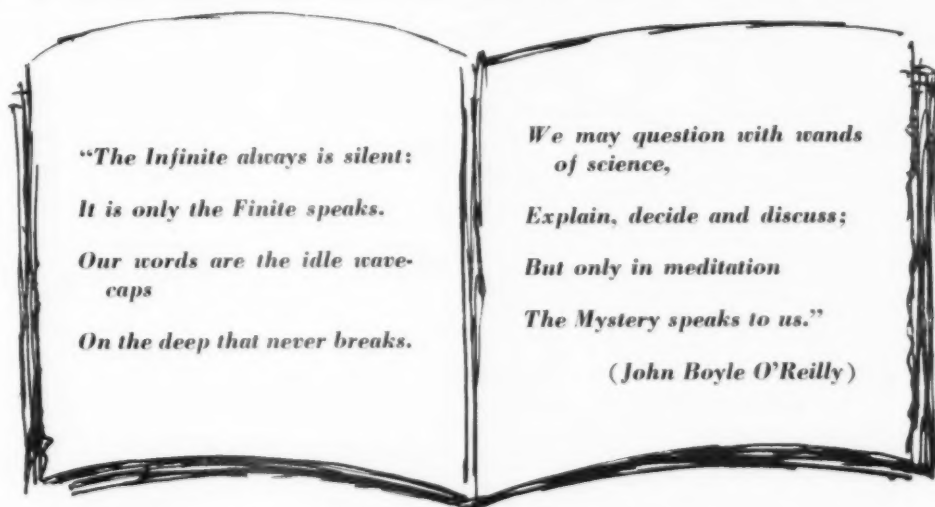
of a solid color suit and thin stripes outline a deeply squared off neckline and backline, running horizontally across the bodice and vertically up the straps. Stripes are used to create a two-piece illusion on a one-piece suit. Here, except for a small solid color section of the maillot trunks horizontal stripes cover the elongated torso of this suit.

Unusual details appear on other stretch nylon suits including a peek-a-boo back on a scoop neck and back maillot patterned in black and white window pane checks and an open ring detail on the midriff and at the bottom of a plunging backline on a solid color maillot. A bikini also appears in the stretch nylon grouping.

Knitted of Helanca textured filament yarn are a scoop neck and back maillot with a tie at the waist and a simple clinging maillot with no detail.

Orlon and Lastex knits include a solid with deeply squared off back and front and a maillot with slightly puffed pants in a stripe and a solid plunging back tank top.

Strictly  
Stickley



There is no mystery in Stickley service — only honest, satisfying values.

John L. Stickley & Co.

New York Office:  
112 West 34th St.  
OXford 5-4779

Pennsylvania Office:  
265 Colket Lane, Wayne Pa.  
MUrray 8-0300

Charlotte, N. C. Office:  
1615 East Blvd.—Tel. CE 190  
EDison 3-9253

REPRESENTING  
Milwaukee—ask Long  
Distance for Enterprise 8-1900  
Cleveland—ask Operator  
for Enterprise 9253

Peerless  
Duesberg-Bosson  
Sauquoit  
Stickley  
Mt. Mitchell  
Foremost

John L. Stickley \* E. Clay Timanus \* Robert F. Branscombe \* Robert F. Howell, Jr. \* James Y. Rogers, Jr. \* Jack Stickley, Jr. \* Edward A. Morgan \* George Wehrlin



INSPIRATIONS IN FINE LACE FABRICS BY

# Mayer Machines &

The Mayer Textile Machine Corporation has long been recognized as an outstanding leader in the production of machines for the knitting of fine lace fabrics. Those shown here are representative of the wide variety of beautiful and intricate patterns produced on the company's "Super-Garant" 24-bar Raschel Lace Machine. Regarding the use of Torrington Needles in Mayer machines, Mr. Nat Brody, Sales Manager for this progressive machine builder, states:

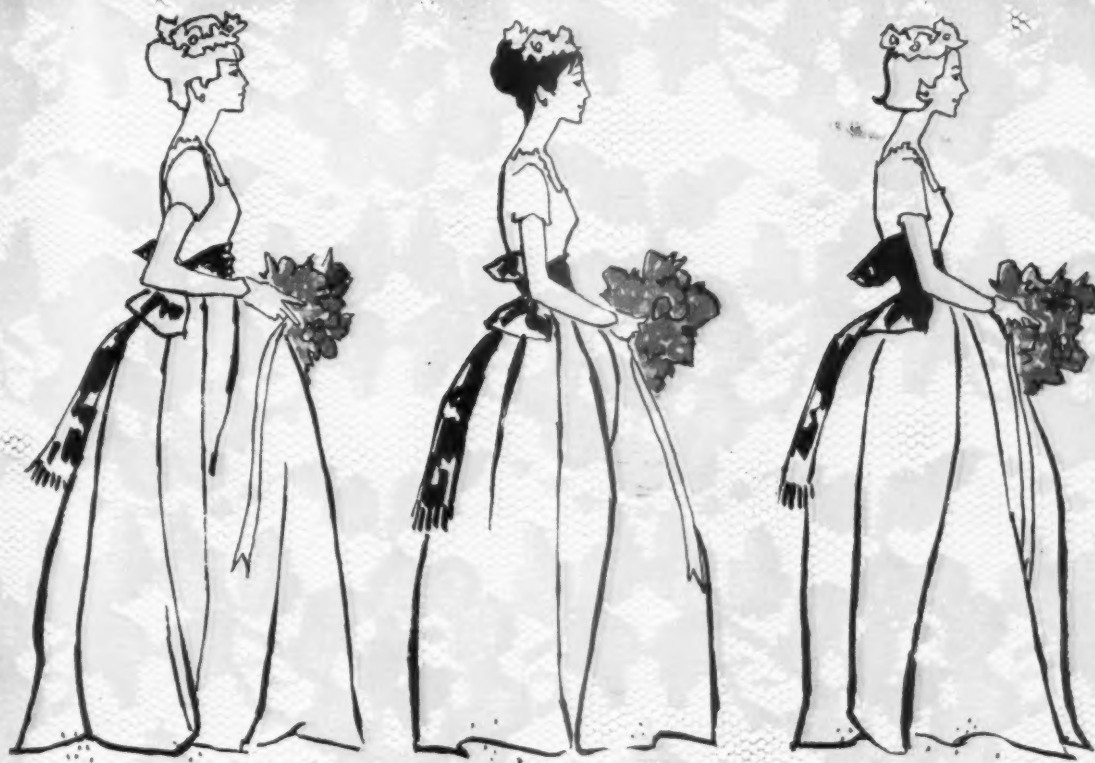
*"The Mayer machines are sold in 61 different countries*

*throughout the world. Consequently, we require a dependable standard needle that can be obtained in any of these countries where we sell our equipment. The search for this sort of superior latch needles inevitably led to Torrington. Torrington Needles have stood the test of time in our equipment."*

The superiority of Torrington Needles has also been tested and proven in every type of knitting machine and every type of knitting. If you have a needle problem, Torrington will help you solve it with the right needles.

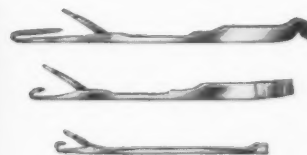
**THE TORRINGTON COMPANY**

Established 1866 Torrington, Conn., U.S.A.  
Bedford, P.Q., Canada • Coventry, England • Genoa, Italy



# Torrington Needles

LACE PATTERNS OF BEAUTY AND ORIGINALITY — The Mayer "Super-Garant" 24-bar Raschel Lace Machine is capable of producing an endless variety of intricate lace patterns either in bands, galloons or all overs, using all types of textures of yarns for application as underwear fabric, outerwear fabric, trimming or any other application where lace may be required. It produces work heretofore unknown on any lace machine other than the very fine Levers machines.



THERE'S A TORRINGTON NEEDLE FOR EVERY MAKE OF MACHINE . . . FOR EVERY TYPE OF KNITTING!

Branches to serve you are located in: New York • Philadelphia • Chicago • Boston • Greensboro, N. C. • Atlanta • St. Louis • Toronto, Ontario, Canada • London, England • Zurich, Switzerland • Pacific Coast Representative: E. G. Paules, 1762 West Vernon Avenue, Los Angeles 62, California  
Lace Designs © 1959 Lincoln Lace Mills, Inc., New York

You—and millions of your customers—will see this colorful ad in the March issues of *Vogue*, *Harper's Bazaar*, *McCall's*, *Glamour* and *Mademoiselle*...telling the exciting new story of Lastex with Vyrene!



LASTEX® with VYRENE® makes you free as a bird...

The only thing more exciting, more revolutionary than the invention of Lastex itself is the new Lastex with Vyrene spandex core. Years in perfecting, Vyrene now soars forth into the world of fashion to bring you elasticized fabrics the like of which you have never seen before. Because Vyrene is, literally, almost as fine as a human hair, it creates girdles that weigh mere ounces yet work miracles of figure-firming control. You'll find it in bras and bra-top slips that



in light-as-a-feather girdles, bras and lingerie!

fit like a second skin...lighter, softer, more flattering than anything you've ever worn. All Lastex yarns—which assure you of superb performance and long-lasting beauty—are made only by the Textile Division, United States Rubber, Rockefeller Center, New York 20, N. Y.

US LASTEX YARN • TEXTILE DIVISION  
United States Rubber

## New, lighter LASTEX® with VYRENE® creates *light-as-a-feather* bras, girdles and lingerie

Not since the invention of Lastex itself has there been anything as exciting, as revolutionary in the girdle-bra-and-lingerie market as the new Lastex with Vyrene spandex fiber core. This elastic yarn—literally almost as fine as a human hair—opens a whole new world of foundation fabrics. Fabrics of superb control, of maximum comfort, of long-lasting beauty that are softer, lighter, finer, even sheerer than anything you have

ever seen before. These lovely new fabrics have inspired new designs to create whole new markets for you. This season, when looking at spring '61 lines, make certain that you see, too, the most exciting *new* styles...made with *new* Lastex with Vyrene.

US LASTEX YARN • TEXTILE DIVISION  
United States Rubber  
Rockefeller Center, New York 20, N. Y.



## Swim Suit Ideas From Abroad

# All Eyes Turn To Necklines That Make The Difference



Shoulder straps that extend to form an edging for a sweetheart neckline are embroidered in a soundwave pattern to match the pockets. Both features are unusual details on a swim suit.



Classic sweetheart necklines are given different treatments to point up their versatility. Left, a long bow picks up the color of the daisies scattered over the surface of a sheath. Right, slightly off the shoulder straps add a dressmaker touch to a smart, simple sheath.



Looking upward from the classic skirt of a sheath swim suit, the eye is drawn to a bodice yoke that extends to form tiny cap sleeves.



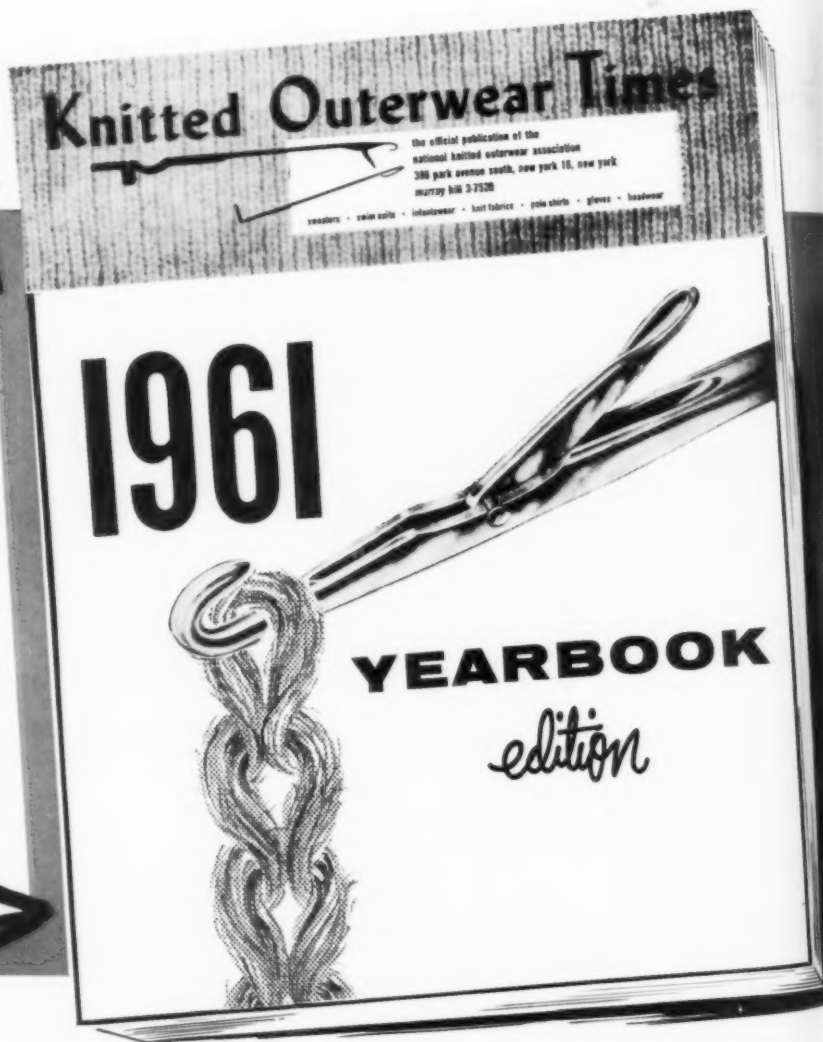
A shirred center panel creates feminine and graceful lines in a V-neck maillot with built-up halter straps.



Shoulder straps need not stop at being functional; they may easily continue to form part of the allover design as here illustrated. Left, a single strap weaves in and out of a sheath to end in a bow, and right, extended solid straps contrast against the multi-color print of the suit.

# Have you reserved

**FIRST USED ...  
MOST USED ...  
BEST USED  
DIRECTORY  
IN THE KNIT  
GOODS TRADE!**



Only The "Yearbook" Offers  
These Advantages:

- 1) Pin-pointed coverage of the booming knit goods market.
- 2) Longest life-span and use-span of any publication ever issued for knit goods.
- 3) Largest audience of knit goods executives ever assembled by any publication.
- 4) A full year's exposure—for the low cost of a one-time ad.
- 5) No waste circulation to pay for . . . no irrelevant advertising to detract from your ad.

*Be ready for the knitwear  
trade's biggest year . . .*

*Be dominantly represented  
with a "telling and selling" ad  
in the "Book of the Year for  
Knit Goods" . . . the one and only  
Knitted Outerwear "Yearbook."*

**TO APPEAR ON  
APRIL 20, 1961**

**Knitted Outerwear**

386 PARK AVENUE SOUTH NEW YORK  
MURRAY HILL 3-7520

# Have you ad space yet?



**BE A BIG  
NAME AT THE  
BIG SHOW...  
IN  
PRINT!**

**TO APPEAR ON  
APRIL 24, 1961**

*Over 13,000 knitting executives will see your ad in our special "Knitting Arts Exhibition" issue. Again in '61... the "Times" will be the #1 "Guide to the Show" publication... in editorial coverage, distribution and impact!*

**Only Our "Knitting Arts" Issue  
Offers These Advantages:**

- (1) A direct entree to the largest concentration of knitting mill owners and executives—from thousands of plants in the United States and abroad.
- (2) Features and technical coverage with the "Voice of Authority" directness of the knitting industry's leading publication.
- (3) Timed just right—to influence new equipment sales, mill modernization as well as yarns, fabrics and supplies for a dynamic market.

**Knitted Outerwear Times**

**SOUTH NEW YORK 16, N. Y.  
MURRAY HILL 3-7520**

# Recipe for fine Italian-type sweaters... National Zephyr Yarns!



Satisfy your sales appetite with National Zephyr Yarns—the ultimate in building profitable volume in Italian-style knits.

Take advantage of National's 40 years of experience manufacturing and distributing quality yarns! National carries a complete line of worsteds, mohair blends, and zephyrs—in single or ply, on cones or skeins—natural and in colors keyed to suit every fashion trend.

"QUALITY—AT NO EXTRA COST"



**NATIONAL SPINNING Co., Inc.**

350 FIFTH AVE., NEW YORK 1 LONGacre 5-0360

**NATIONAL YARN CORP.**

2735 PROSPECT AVE., CLEVELAND, OHIO

MILLS: Jamestown, N.Y.; Washington, N.C.; Whiteville, N.C.

SPINNERS OF WORSTED • ZEPHYR • MOHLAN • NYLON • TURBO ORLON • SPUN-GEE® BAN-LON • YAMA® NATURA® ACRILAN • VYBRAN® AMORA



## Finishing

### A New Polyamide Shrinkage Control For Wool Developed by U.S. Scientists

ALBANY, Calif.—A highly successful technical conference on wool fabric finishing research was held here February 9 and 10 under the auspices of the U. S. Department of Agriculture's Western Utilization Research and Development Division. The first gathering of its kind to be held at the Albany Wool and Mohair Laboratory, the conference brought together leaders from industry, research, and education, from government, military and civilian sources, in order to exchange ideas and promote future cooperative relationships.

Subjects covered included two different methods of shrink proofing wool which have been developed at the laboratory, new chemical modifications of wool, new instrumentation for evaluation of wool products, military preferences in finished wool fabrics, civilian preferences in finished wool fabrics,

and how basic research is aimed toward achieving new and better finishes.

The scope of the conference was extended with a report on cotton finishing by Wilson A. Reeves, chief of the USDA's Southern Utilization Research and Development Division which is located in New Orleans, Louisiana.

Much interest was evidenced in the government's work toward developing better wash and wear properties for wool. The polyamide-IFP finish is the latest of these methods to show promise and to be part of the Agriculture Department's continuing research in this field. It involves covering wool fibers with an ultra-thin coating of a polyamide which is chemically similar to one type of nylon. This film is so thin that it increases fabric weight as little as one percent or less. The IFP designation comes from the fact

that the process uses a reaction well known in chemical research as interfacial polymerization. It involves immersing the wool in a dilute solution of a diamine and then immediately drawing it through a dilute solution of diacid chloride. Under suitable conditions, a very thin and extremely durable polymer film is formed on the surface of the wool fibers.

#### Meet Lab Tests

Laboratory tests of the new treatment have shown it to be successful for controlling shrinkage of a number of wool products including knitwear with superior retention of dimensions, colors, softness, and resilience. This method can be combined with the USDA's recently announced ethanolamine process for putting permanent pleats and creases in wool fabrics.

An earlier development of the laboratory, the epoxy resin finish for shrink proofing, differs from the IFP treatment. This procedure was first reported in 1958 and has undergone further developments since that time.

Many examples of treated

fabrics contrasted with untreated ones were displayed at the conference to illustrate the expected results.

The discussion of "new chemical modification of wool" highlighted the work that is being done to shrink wool fibers as a basis for the improved manufacture of wool felts. USDA scientists have found that soft wool felt treated with a hot solution of dimethyl sulfoxide becomes dense and hard within a few minutes. Splitting tests indicated that the treated felts are two to three times stronger than the original felts.

Dimethyl sulfoxide, an inexpensive, commercially available liquid, shortens fibers by rearrangement of wool molecules and thus effects a permanent hardening and toughening of the felt. Soft felts can be compacted to half their original size in minutes as compared to hours by present methods thus reducing the amount of mechanical beating now required to harden felts. This could make possible the continuous processing of felt rather than the present batch-type manufacture.



# Winona Textile Mills, Inc. Wilson Trading Corporation Colonial Woolen Mills, Inc.

Continuous research in developing new blends, new methods, plus skilled craftsmen at each stage in the production of fine woolen spun yarns and coordinated fabrics are your guarantee of our ability to meet your requirements.

We invite your inquiries.

#### NEW YORK OFFICE:

1440 Broadway • Wisconsin 7-2176

#### MILL:

W. 65th & Barberton • Cleveland 2, Ohio • Atlantic 1-3200

#### SALES REPRESENTATIVES

W. H. HUTCHINSON  
222 W. Adams St.  
Chicago 6, Illinois  
FRanklin 2-0224  
Teletype CG 2127

PAUL A. BARKER  
1182 Broadway  
New York, N. Y.  
Murray Hill 9-0422

FREDERICK P. TOLNAI  
819 Santee Street  
Los Angeles 14, California  
MAdison 2-5777

#### Specialists in woolen spun:

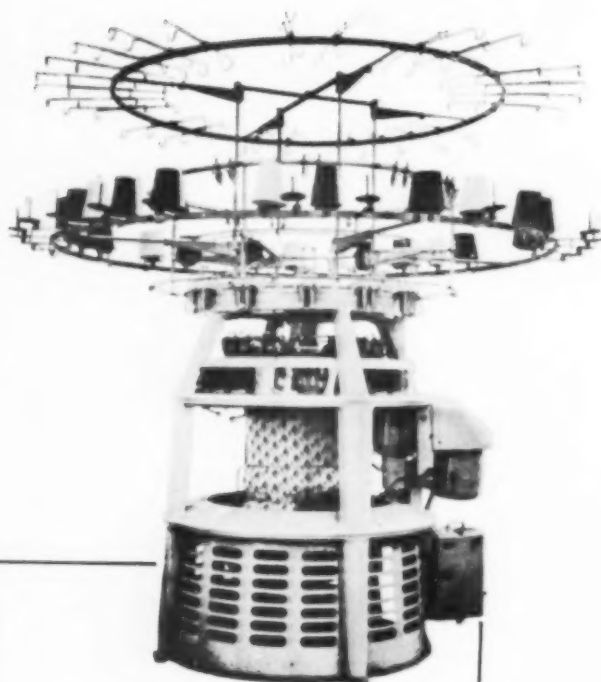
- cashmere
- camel's hair
- lamb's wool
- fur fiber blends
- angora blends
- shetland types
- kid mohair blends
- dyed-to-match and coordinated fabrics



# LEBOCEY MODEL "NOPAVIT"

## Circular Jacquard Rib Machine for the Finest knitted fabrics

24 FEEDS — 30.7" — 24 PATTERN WHEELS  
14 — 16 — 18 CUT



Built by:

**Georges Lebocey & Cie.**

Troyes, France

Circular machine builders  
for 115 years

### Pattern Possibilities:

- Basic rib textures
- Plain and double pique
- Cardigan
- Blister
- Interlock
- Eightlock
- Ripple
- 2-3-4 Color Jacquard
- Combinations of Jacquard-Cardigan, Relief-Cardigan, Relief-Jacquard

### Patented Features:

- Cylinder needles selected by gear-driven pattern wheels with permanent setting
- Pattern selection discs placed on pattern wheel assembly provide fastest possible pattern changes and easy storage for future use of the same patterns
- Supermatic capstan type yarn furnishers on all feeds regulate yarn tension and assure even fabric structure
- Teleoperated 4 levers for speed regulation

Represented and serviced in the U.S. and Canada by:

## TRICOMA, INC.

7504 Empire State Bldg.

New York 1, N. Y.

Tel. WIsconsin 7-7466/7

Showroom and workshop: 303 Stockholm Street, Brooklyn 37, N. Y.  
Tel. GLenmore 6-0205

## Dyes & Chemicals

### Sandoz Issues Dyestuff For Bluish Blacks

Cuprofix Black C-FBL Pat, a homogeneous, aftercoppering dyestuff for bluish blacks on cellulosic fibers has been issued by Sandoz, Inc. The dyestuff is said by the company to have very good light fastness and to be stable to resin finishing and highly soluble. It is suited for padding processes including the Pad-Roll System and for high-temperature dyeing.

The dyestuff covers dead cotton and dyes level on barré viscose and gives a reserve of small acetate effects.

Cuprofix Blue C-FBL, an aftercoppering direct dye recently issued by Sandoz, was erroneously called "after cropping" in the February 6 KNITTED OUTERWEAR TIMES.

### Koppers Co. Introduces New Polyester Dyes

A new range of 14 colors for polyester fibers has been introduced by the chemical and dyestuffs division of Koppers Company, Inc. The group called Amacron Dyes, is claimed to have outstanding brightness as well as "properties assuring the utmost in fastness to light, washing, crocking, sublimation and perspiration."

The new dyes are said to be tailored for polyesters and have a complete affinity for these fibers. The dyes can be applied without carriers in pressure dyeing and may also be applied by the DuPont Thermosal or heat cure method.

### Arnold, Hoffman Reduces Procion Dyestuff Prices

PROVIDENCE, R. I.—Arnold, Hoffman Inc. has announced price reductions for five Procion dyestuffs, as follows:

From

Yellow GRS	\$5.98 to \$5.05 lb.
Brilliant Orange	
2RS	4.75 to 3.75 lb.
Red GS	5.40 to 4.70 lb.
Brilliant	
Red 5BS	4.30 to 3.35 lb.
Brilliant	
Red 8BS	4.95 to 3.96 lb.

### Aniline Appoints Two

Antara Chemicals Division, General Aniline & Film Corporation has appointed Dr. John F. Mulvaney as manager of the

Linden, N. J., plant and Richard W. Mackiewicz as manager-production services.

Dr. Mulvaney was manager-plant production department. Mr. Mackiewicz was supervisor-wage and salary administration at the plant.

### Laminated Knits

#### Eddy Quits Eddytone; Is Now Independent

SPRINGFIELD, N. J.—Robert G. Eddy has resigned as president and director of The Eddytone Corporation. He was instrumental in the development of new processes and machinery for the lamination of polyurethane foam to fabrics.

He was with the fabric development section of DuPont and is a graduate of Lowell Technological Institute.

At present Mr. Eddy is operating from his home at 90 Troy Drive, here, as a consultant to the textile and plastics industries.

#### Nopco Doubles Capacity For Foam Production

NORTH ARLINGTON, N. J.—Doubled capacity for producing thin-sheet polyester foam has been announced by Nopco Chemical Company.

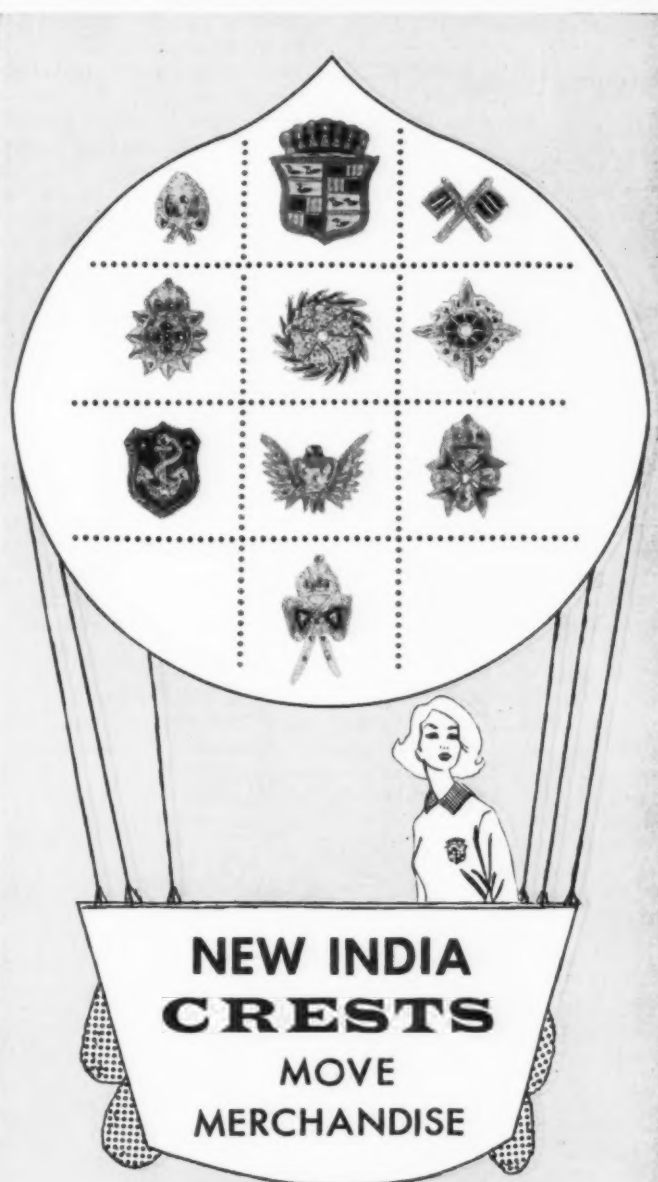
The company's facilities here will be expanded, a new foaming and fabricating plant will be completed in April at Chattanooga, Tenn., and construction has begun on a new multi-million dollar plant in New Jersey to produce toluene diisocyanate—a basic ingredient of foam.

### Synthetic Fibers

#### Creslan Shown At NARCF In Liners And Outerwear

CHICAGO, Ill.—More Creslan acrylic fiber for fall is shown in fabrics at the NARCF convention. Fabrics range from shirtings of 50/50 Creslan and Coloray to deep pile fabrics of 100 percent Creslan for liners and outerwear.

The newly developed pile fabrics of 100 percent Creslan are being used as both liners and shells. A knit pile has been developed by the Borg Fabric Division of Amphenol-Borg Electronics Corporation in an unlimited range of colors, dyed to match or blend.



#### ADDS ELEGANCE, PRESTIGE & PROFITS

New India emblems eliminate that run-of-the-mill look. They identify your garments as something special—a smart creation. Great variety of crests available. 1,000,000 pieces always ready for delivery. Priced to move. Call or write today.



**New India INDUSTRIES, INC.**

146 Fifth Avenue New York 11, N. Y. Tel: OR 5-5906

Art courtesy of GOVERNMENT OF INDIA Tourist Office

REPS.—Boston: HA 6-9573, Jack Killeen • Cleveland: CH 1-3445, Isaacson & Kater



## Synthetic Fibers

### Record British Output Of Man-Made Fibers

LONDON, Eng.—A 15 per cent rise in output of man-made fibers took place in Britain in 1960, according to the British Man-Made Fibers Federation. The aggregate was 591.99 million lbs.

This represented a new record, following that achieved in 1959. In 1958 the total was 421.51 million lbs. Both filament yarn and staple fiber output created new peaks at 268.61 million lbs. and 323.38 million lbs., respectively. Viscose rayon production accounted for about 75 percent of total output, despite the expansion achieved by nylon, Terylene, acetate and the acrylic fibers.

For the first time last year the output in December was not a monthly record. Partly because of the Christmas holidays and partly owing to stoppages for maintenance after the busiest year in the industry's history, the total was 47.10 mil-

lion lbs., against 50.79 million lbs. in December, 1959.

The Federation points out that one influence on staple output was a cut-back in production intended for the tufted carpet trade, which a year previously had been buying on almost panic scale through unjustified fears of stoppages.

There are now signs of a revival in this trade, but demand for industrial yarns showed a decline in December, probably influenced by the effect of the automotive trade recession and the lower call for tire-cord fabric.

### Dow Increases Prices Of Lurex And Rovana

The Dow Chemical Company has increased the price of Lurex 50C supported yarns from \$.30 to \$.80 per pound depending upon the content of metallic.

Lurex 50C, 1/64th in gold or silver combined with two ends of 30 denier nylon will be increased from \$9.00 to \$9.65 per pound. Other combinations using different supporting yarns

have been increased proportionately.

The company also changed the prices of 300 and 400 denier Rovana. 400 denier Rovana, white, will decrease from \$1.22 to \$1.20 per pound and colors will decrease from \$1.32 to \$1.30 per pound. 300 denier will be increased in white from \$1.25 to \$1.35 per pound and in colors from \$1.35 to \$1.50.

### Industrial Rayon Names Assistant Sales Manager

CLEVELAND, O. — Ralph Richardson has been promoted to assistant sales manager of the Industrial Rayon Corporation's rayon textile yarn division. He joined the company in 1955 in a market development capacity and was transferred later to the rayon yarn sales staff.

### Hartford Fibres Appoints

Hartford Fibres Company has appointed Mr. W. C. Privette as dyeing and finishing service manager for Zantrel polynosic rayon. He was formerly plant superintendent of American & Efrid Mills, finishing division, Mount Holly, N. C.

### Textile Research Institute To Meet March 16-17

(Continued from Page 1)

Corporation; "Some New Interpretations of the Tire Cord Fatigue Phenomenon," by W. G. Klein, W. J. Hamburger and M. M. Platt, Fabric Research Laboratories, Inc.; "Effect of Radial Heterogeneity on Fiber Properties," by R. W. Singleton and M. A. Sieminski, Summit Research Laboratories, Celanese Corporation of America; and "Polypropylene Textile Fibers," by Gilman S. Hooper, director of research and development, fiber development department, Hercules Powder Co.

The Thursday luncheon talk, "Research Trends in the Pulp and Paper Industry," will be given by Dr. Lincoln R. Thiesmeyer, president of the Pulp and Paper Research Institute of Canada.

The Friday morning session will be under the chairmanship of Mr. William E. Clark, retiring chairman of the TRI board of trustees and vice president and general manager, textile division, United States Rubber Company.



## Aldon delivers the newest!

*Aldon*

— the mill with a feeling for fibers

has the imagination, skill, and versatility that creates the truly new! Applying new formulas to the newest in fibers, Aldon wool-spun yarns are produced with classic craftsmanship . . . for new beauty and time-honored quality. Call on Aldon for the newest — you'll be glad you did.

**The Aldon Spinning Mills Corp.** Talcottville, Conn.  
where master spinners create the unusual

Merritt Company  
40 East 34th Street  
New York 16, N. Y.

Represented by:  
Moher Associates  
44 Washington Street  
Wellesley Hills 81, Mass.

C. J. McAlaine Yarns  
1 Highland Avenue  
Bala-Cynwyd, Pa.





## Women's & Misses'

### Darlene Has Antron Dresses, Coordinates

Many firsts are represented in the spring 1961 line of Darlene Knitwear. It is the first time dresses are included in this collection, which in the past has consisted primarily of sweaters, and the dress fabric is somewhat of an experiment since it is knitted of a relatively new fiber.

Knitted of the DuPont Co.'s tri-lobal fiber, Antron nylon, that has undergone the Mylast crimping method to impart a chenille surface, these dresses come in two two-piece styles. Both dresses are full-fashioned, have sheath skirts and are offered in a rich blue or a medium beige. Variation is found only in the tops which include a boatneck with three-quarter sleeves and a bow detail at the neck and a short-sleeved style with an open placket and small wing collar.

Combining to form the component parts of coarse gauge Orlon coordinates are marl wool sweaters in bright green, pink or beige with white and solid white slacks, sleeveless pullover and sheath skirt. A Chanel-type jacket and a collared cardigan are the two marl styles offered.

Fur blend 24 gauge spring sweaters include the most successful fall styles in new holiday colors as well as seven to ten new styles also in the new shades. Here neckline interest is predominant.

Also included in the holiday-spring line are 9 gauge medium bulkies in an assortment of new

shades and styles. Interesting detail on different numbers appears in the form of fancy stitching above cuffs and lower edge ribbing, along raglan sleeve inserts or along necklines. Style-wise, necklines range from a wide cuffed cowl to simple collarless jewel.

Very different are cotton sweater blouses knit in novelty stitches to create heavily textured surfaces. Two cardigans have a wing collar and an eased jewel neck while a pullover has a V-neck and wing collar.

Highly styled and fitting easily into spring as well as winter wardrobes are angora blends composed of 62 percent angora and 38 percent wool. Full-fashioned, outstanding styles here are a raglan sleeved pullover with a scalloped cowl collar, a long-sleeved cardigan with an interesting mock collar along a jewel neck, a cowl-collared pullover with a bib trimmed with small buttons, and a pullover with a tie along the neck.

Completely coordinated outfits by Darlene include a sweater trimmed with woven fabric to match two-piece dresses and pants of different lengths.

### Sweater Shipment Down

WASHINGTON, D. C.—Women's sweater shipments in December, 1960, declined 46 percent from November, the Census Bureau reported.

Some 437,000 dozen were shipped in December, compared to 815,000 in November. The December total was down 12 percent from the 497,000 dozen of December, 1959.

## BUTTONS

A complete selection of  
sew-thru and shank buttons  
in plain and textured polyesters.

Also

Plastics, acrylics, metals and pearls.

Perfect color matching.

One day service.

Call or write for samples.

New York Washable Button Corp.

1170 BROADWAY • NEW YORK 1, N. Y.

LExington 2-6088

FOR TODAY'S NEW AGE OF COLOR  
BRILLIANCE...

## SYNTHETIC YARNS

### PACKAGE-DYED BY GLOBE...

Your creations can't help but be enhanced—both as to elegance and attractiveness, when they are decked in rich, long-lasting colors, imparted by Globe-dyed synthetic yarns.

Globe does package dyeing on tubes, skein and warp dyeing, warp bleaching and sizing.

Yarns processed include cotton, worsted, linen, blend and novelty yarns, and all synthetics including Arnel®, Creslan®, Orlon®, and Zefran®.



4500 Worth Street  
Philadelphia 24, Pa.

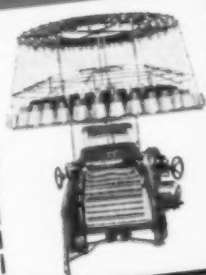


# FROM SUPREME

your tickets to smash hits  
in knit outerwear-sportswear fabrics

## SUPREME MODEL SAAF-C VARIABLE STRIPER & PATTERN PLACER

Knits variable striped fabrics, pattern wheel fabrics, Pattern Placer fabrics, lay-in fabrics, knit and tuck cloth and knit and welt cloth. Has 32 four color striping boxes, 32 pattern wheels, 32 pattern placers... simple manual setting of design drum... finger-tip control of pattern placer... synchronized "no-waste" cutters... "step design" stationary yarnstand.



## SUPREME MODEL ROF "FLOATLESS" PATTERN KNITTER

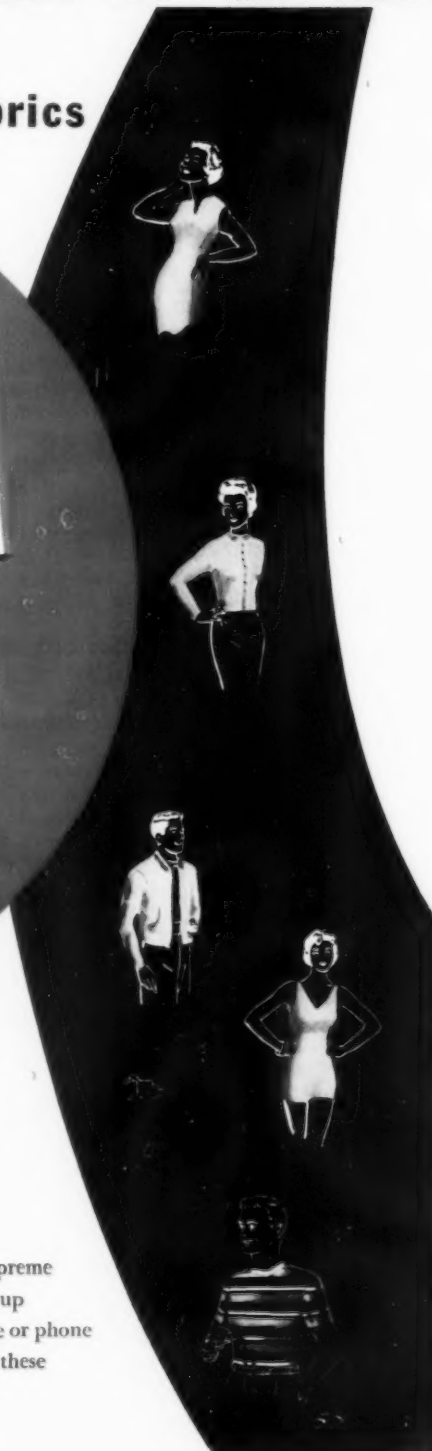
Produces Jacquard-type widely spaced patterns with no loose floats. Pattern design not limited by length of float. Knits patterns and designs, vertical stripes, jersey, lay-in, knit and welt, solid plaited or lace fabrics. Any combination of knit, tuck and welt needle positions available on all feeds without changing cams, needles or pattern wheels.



These two Supreme machines are your tickets to widely acclaimed profit-knitting performances. They produce a fabulous variety of today's best-selling fabrics at high speeds and efficiency plus uniform high quality.

**SUPREME**  
KNITTING MACHINE CO., INC.  
94-02 104th STREET, OZONE PARK 16, N. Y.  
Southern Representative and Showroom  
The Mallory Co. 914 East 4th Street, Charlotte, N. C.

The terrific versatility of these Supreme profit-knitters enables you to keep up with and ahead of the market. Write or phone today for complete information on these and other Supreme machines.



Style Ideas From Abroad**Stripes And Buttons Create Placket And Collar Interest**

1. Along the jewel neckline, a deep front placket and low slung pocket runs a novelty stripe trim.

2. Accentuated by large buttons, a deep placket in contrasting color highlights this long-sleeved pullover.

3. A V-neck and three pockets marked by contrasting stripe and bow detail set the style of this five-button cardigan with three-quarter sleeves.

4. A knopped wool tunic has three-quarter sleeves and imitation fur trim along its small round collar and on the front tie detail.

5. Piped in a darker contrasting color is the bib, Eton collar and cuffs of this novelty pullover.

6. From a slightly eased neck falls a split cowl collar highlighted by a thin self-fabric bow.



## New Roberts Tow Transformer

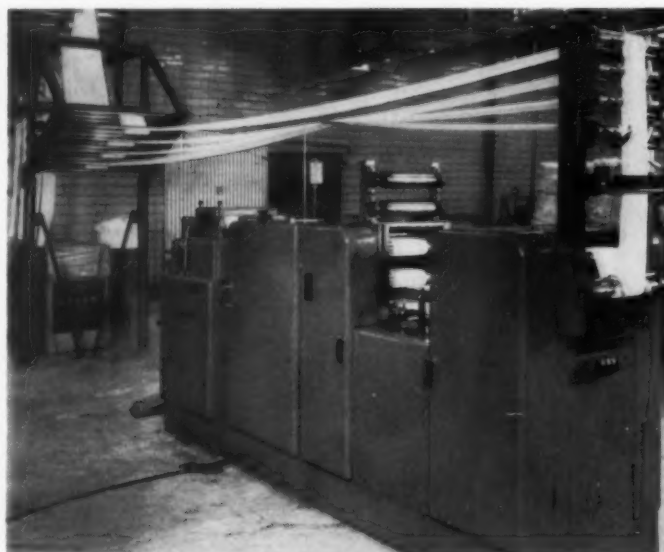
(Continued from Page 6)

pinning operation to evenly distribute and parallelize the cut fibers, further the blend and deliver a homogeneous sliver. This last operation may eliminate some subsequent quilling operations.

The ParaDrafter head feeds through a crimping box to give further cohesion and compactness to the sliver, which is then delivered through a ball bearing coiler into the large can.

The transformer itself is a blending machine. First, tow from four to eight boxes or balls of continuous synthetic filament are combined in a sandwich in order to obtain the infed of up to two million deniers, so that possible differences from one box to another are minimized. Succeeding zones provide the opportunity to sandwich blend normal with stretched tow, and then also natural fiber or previously processed tops may also be combined with the cut web. Finally, the quilling zone obtains further blending distribution.

A joint development of



The new Roberts-Tematex tow transformer in action. Synthetic tow is made into a sliver in one operation.

Roberts and its Italian affiliate and licensee, the Tematex Co., the transformers are being made at Tematex's modern precision plant near Milan. For the United States' market, important components of the machines are being made and fitted at Roberts' Sanford plants.

G. N. Giraudi, Roberts vice

president, in discussing trends in synthetic fiber transforming and blending, outlined the technological requirements engineered into the tow transformer and predicted that "the future of synthetic fibers in many fields appears to lie with the processing of two into sliver for both the cotton and worsted systems."



G. N. Giraudi, vice president of Roberts Company, left, demonstrates the heated pre-stretch zone of the tow transformer to John T. McGuire, center, and Alan Axelrod, manager and vice president, respectively, of Airedale Worsted Mills.

## Obituary

### Edward P. Krebs, 71

PHILADELPHIA, Pa. — Services were held February 28 for Edward P. Krebs, yarn spinners' representative, who died at 71 in Fort Lauderdale, Fla.

He is survived by his widow, Estella; a daughter, Mrs. Miriam E. James, and two grandchildren.

For the packaging of  
**OUTERWEAR • UNDERWEAR  
SLEEPWEAR**

Cotton • Wool • Synthetics

**PERFEX CLIPS • KAM CLIPS**

Nickel-Plated Brass Clear Plastic

**NO HOLES • NO STAINS • NO DAMAGE**

# CLIPS ?

**IF IT'S CLIPS IT'S TEXPAK**

**WIDE SELECTION**  
of METAL and PLASTIC clips in all sizes.

**PRECISION-ENGINEERED**  
for good holding power, fast application and safe use on all fabrics.

**EXPERIENCE**  
Clips is our business and has been for over 20 years. We recommend the right sizes and clips for your garments and demonstrate their proper use.

**Texpak INC.**  
TEXTILE PACKAGING DEVICES

381 FOURTH AVE. • NEW YORK 16, N. Y.

A SPECIALIZED BUSINESS WITH SPECIAL SERVICE



## New Techniques

### Automatic Wool Grading Developed By British

LONDON, England — A new machine developed by the British Wool Industries Research Association automatically grades cops of yarn into one or other of six types by weight. The machine is electronically operated and works against a pre-determined standard weight. Cops are fed into the unit and a "shadow weight" scale operates a selector mechanism which diverts the cop into the appropriate bin. To this automatic sorting is added a visual counter which shows at a glance the number of cops handled.

Any cop that is either excessively under or over weight is rejected by the mechanism; only cops falling within the agreed limits are passed, and this enables subsequent processing to be maintained at a consistently high level.

With the new machine it is possible to grade up to 1,800 cops an hour, depending on the speed of the operator. No spe-

cial skill is required to operate the machine; the cop is simply placed on the weighing pan, from which it is automatically discharged to its respective bin.

### AATT To Hear Talk On Tex Numbering System

The Tex yarn numbering system was the subject of the March 1 meeting of American Association for Textile Technology, Inc. Dr. A. G. Scroggie of the DuPont Company and a member of Committee D-13, American Society for Testing Materials, spoke on the system as a challenge to the textile industry.

### Foundation Distributes Cartoon, Baby Week Kit

(Continued from Page 1)

mounted and unmounted posters, display ideas and streamers depicting a baby with the slogan, "Pamper baby fair with new knitwear."

The cartoon mats, titled "Oddly Enough," show the history of outerwear from the tunics and cloaks of antiquity to the sweater of today — "perfect for men, women and children."



**SPECIALTY**  
*woolen yarns*

**WINCHESTER**  
SPINNING CORPORATION

WINSTED, CONNECTICUT

ALPACA

VICUNA

ANGORA, CAMEL'S HAIR, CASHMERE, LAMBS WOOL, MOHAIR

Specialists in Quality Woolen Yarns for more than 75 years

#### FOR SAMPLES AND QUOTATIONS

NEW YORK: HUGGINS-CLELLAND, INC., 1440 Broadway, Bryant 9-8752

PHILADELPHIA: FRANK L. DURR, 1207 Western Savings Fund Bldg.,

Kingsley 6-4855

PROVIDENCE: RAYMOND J. WALSH, 22 Edison Ave., GAspee 1-6694

CHARLOTTE: COLLINGWOOD, IBACH & CO., 205 S. Church St., EDison 2-1428

TENNESSEE: JOSEPH S. PERSINGER, Lookout Mountain, Taylor 1-2170

CHICAGO: GEORGE W. VENESS, 222 West Adams St., STate 2-8962

*G & G fashions fabrics for use in*  
**INFANTS', CHILDREN'S, LADIES' AND MEN'S GARMENTS**

**a GREAT**  
**name to know**  
**for GOOD**  
**knitted**  
**fabrics**

**G & G**

**KNITTED FABRICS CO., INC.**

119-125 West 25th St.

New York 1, N. Y.

CHELSEA 3-5615-6

**HEATHER**  
Single and Two Ply  
Solid and Fancies  
**COMBED YARN**  
Automatic Stripe and  
Tuck Bar  
96 Feed and Pattern  
Wheel Fancies  
Single and Two Ply

**BOUCLE**  
Novelty and Solid

**DURENE**

**PERMAFRESH NORANE**  
Shrinkage Control  
Wash and Wear  
Drip-Dry Knits

This  
Label



Means  
Quality

**Leaders in Fabrics**

**For All Knit Goods**

## NOW—RAINBOW!

A NEW TURBO ORLON

Dyed in Multishades for Special Effects

On Cones Ready to Knit in Both Regular and Heavy Deniers



51 W. 35 Street, New York 1, N. Y.  
LONGacre 4-0460

GASTONIA, N. C. LOS ANGELES, CAL. PHILA., PA. MONTREAL, CANADA



**highest prices**  
**paid FOR YOUR sweater**

**waste**

EVERY FIBER  
EVERY GRADE  
NO MINIMUM

**SKLAR**

TEXTILE  
WASTE  
CORP.

47 Rodney St., B'klyn 11, N. Y. ULster 2-4488

24 Hour Service Within 100 Miles of N.Y.C.  
We Do Business Throughout the World

## KNITTING PATENTS

**NEWLY PATENTED METHOD USES HEAT TO SEPARATE A CONTINUOUS SERIES OF KNITTED ARTICLES**—A new method in which heat is used to separate a continuous series of knitted articles, invented by Rudolph H. Wyner, Brookline, Mass., has been granted U. S. Patent No. 2,969,580. The inventor has assigned the patent to Shawmut, Inc., Stoughton, Mass.

The method is for use on knitted articles which are knitted as successive portions of a strip of fabric with each portion connected to the next by an interknitted yarn of a material which melts at a temperature below that which would injure the material of which the knitted articles are formed. The knitted fabric is supported on a porous support and moved along a predetermined path, and air is drawn through the moving fabric and through the support. The air is first heated to a temperature sufficiently high to melt the connecting yarn but not high enough to

injure the material of which the knitted articles are formed. The relative arrangement of the separated knitted articles is not disturbed while they are on the support and until they are successively removed.

**NEW METHOD PATENTED FOR KNITTING FRONT PANELS OF SWIM SUITS**—A new method of knitting front portions of women's swim suits invented by Barnett D. Gordon of Brookline, Mass., has been granted U. S. Patent No. 2,969,662.

The new method of knitting a front half-panel for a swim suit having an unstressed bulge comprises knitting a series of plain courses on a full-fashioning machine to form the half-panel from the bottom to the breast cup areas, in the following manner: Starting a first loop-shifting operation by shifting in the widening direction the loops on a substantial number of marginal needles at one side of the fabric to the next adjacent needles, knitting a course,

(Continued on Next Page)

1882-1960  
OLD IN EXPERIENCE  
NEW IN IDEAS



QUALITY SKEIN DYEING  
and BLEACHING

WOOL	NYLON
WORSTED	ORLON
ZEPHYR	BLENDS

PHILADELPHIA DYE WORKS

WALTER E. KNIPE & SONS, INC.

Wyoming Ave. & "G" Street  
Philadelphia 20, Pa.  
Pioneer 3-5454

and then shifting the loops from the same marginal needles to the same next adjacent needles, knitting a course, and alternately shifting loops and knitting as described. By this method successive new wales are started by the inmost needle from which loops are shifted.

A second loop-shifting operation is started while the first loop-shifting operation is in progress by shifting in the widening direction the loops on a substantial number of marginal needles at the outer side of the fabric to the next adjacent needles, knitting a course, shifting the loops on the next adjacent needles in the same direction to the then next adjacent needles. Both shifting and knitting operations are continued simultaneously for a predetermined number of courses and then plain knitting is resumed for a predetermined number of courses. Both shifting operations are then reversed by simultaneously shifting loops in the opposite directions from both sides of the fabric whereby wales are merged. The reversed second loop-shifting operation is dis-

continued and subsequently the reversed first loop-shifting operation is discontinued.

### Equipment Firms

#### Singer Fidelity Head

PHILADELPHIA, Pa.—Lawrence Katz, president of Singer-Fidelity, Inc., manufacturers of textile machinery, has been elected to the Board of Mechanics National Bank, Burlington, N. J. He also is a director of the Philadelphia Textile Institute and president of the Knitting Machine Manufacturing Association.

#### Union Special Machine Opens Midwest Office

CHICAGO, Ill.—Union Special Machine Company opened new building for its Pacific Coast territory headquarters at 1100 East Pico Boulevard, Los Angeles, it was announced here.

#### Textile Test Price Guide

HOBOKEN, N. J.—A guide for prices of textile tests has been issued by the United States Testing Company. It may be obtained from the company at 1415 Park Avenue, Hoboken.

**SWEATER WASTE**  
**SWEATER WASTE**  
**HIGHEST PRICES ALWAYS PAID!**  
**G & N WOOL CLIPS**  
 55-17 FLUSHING AVE., MASPETH 78, N. Y.  
 EVERGREEN 6-0022  
 Cable address: Gencilps, N. Y. Out of town: call collect

### SPECIALIZING IN

## KNITTED LININGS for SWIM TRUNKS and BATHING SUITS

- Celanese
- All Types of Cotton Mesh
- Novelty Cloth

**ROSECLAIRE Knitting Mills, Inc.**

782 Wythe Ave., Brooklyn, N. Y.

ULster 5-4248

## EASTMAN MAKES IT EASY TO CUT COSTS

Send for Circulars. TRY these machines on your own cutting tables. Write, wire, or telephone for name of nearest representative

Area Code 716  
TL6-2200

### ► EASTMAN "KNIFE-SAVER" STRAIGHT KNIFE\*

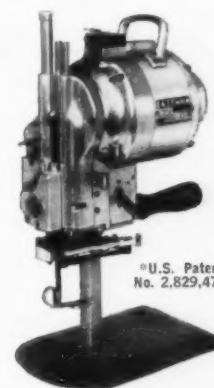
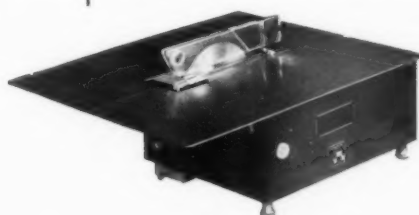
Razor-keen, long-bevel edges SLICE through stretchy knit-goods without distortion . . . straightest sharpening in the business . . . knife savings up to 35%.

### ► EASTMAN "LIGHTNING" ROUND KNIFE

Keeps yarns, etc., from getting behind the knife or into the gears . . . razor-keen sharpening . . . most powerful . . . finest built.

### ► EASTMAN TABLE-SLITTER

New! . . . big 7½" knife . . . faster cutting . . . time-saving, money-saving . . . many new and exclusive features for better operation.



\*U.S. Patent No. 2,829,474

**EASTMAN MACHINE COMPANY**  
**BUFFALO 3, N. Y.**



# INTERSTATE

yarn mills, inc.

5725 HUDSON BOULEVARD

NORTH BERGEN, N. J.

N. Y. Phone: LO 4-3707

N. J. Phone: UN 5-3116

## SCHAEFFER, PFIZENMAIER & KIRKLAND YARNS

FOR THE KNITTED OUTERWEAR TRADE  
WORSTED—ZEPHYR—SYNTHETICS—BLENDS

NEW YORK

350 Fifth Ave., Longacre 3-0479

PHILADELPHIA

3701 No. Broad Street  
Baldwin 3-6295

BOSTON

246 Summer Street  
Liberty 2-9660

## British Machines For Double Knits

(Continued from Page 11)

is possible by means of two entirely independent systems of cams for needles of one type to be actuated independently of those of the other type to combine either knitting and tucking, or knitting and missing, or tucking and missing. Each system at every feed can include either of two interchangeable stitch cams according to whether delayed or synchronized timing is required and these stitch cams, mounted on inclined slides along with check cams, have individual micrometer adjustment for alteration of loop length. The inclined mounting of the stitch cam, which is of patented design, permits a wide range of fabric qualities to be obtained without disturbing the synchronization of the cylinder and dial stitch cams or the path of the yarn as it travels to the knitting zone. Also incorporated in the upper and lower cylinder cam systems at each feed are separate tucking and clearing cams,

the former being movable into miss-and-tuck positions and the latter into miss, tuck and clear (knit) positions. Levers and locking screws for manual operation of the tucking and clearing cams are situated in easily accessible positions on the outside of the stationary cam box.

Four kinds of single butted plate needles are available for use in the dial and these differ from one another in the height and position of their butts, as under: (a) high forward, (b) low forward, (c) high rear, (d) low rear. The dial stitch cams, forward and rear, are individually adjustable for alteration of stitch length and, in addition, they have circumferential displacement for change of timing relative to the cylinder stitch cams. There are manual controls for these settings on top of the cam plate, also controlling levers for the tucking and clearing cams. By means of split tucking and clearing cams provision is made for actuating high butts independently of low butts.

(Continued on Next Page)

## BELMONT THROWING CORP. BELMONT, NORTH CAROLINA

THE  
BIG 3  
FOR SMART  
KNITTERS

Samuel E. Carr, Sales Manager  
Box 527, Belmont, N. C.  
TAlmadge 5-5369

John S. Dunn & Son  
100 E. Broad St., Palmyra, N.J.  
TAlmadge 9-3770

Harry Fowler Yarns  
30 Bayley St., Pawtucket, R.I.  
PA 5-7780

R. Frank Lunday  
P. O. Box 1154, Charlotte, N.C.  
EDison 3-4749

*Helanca*  
Hi-Test Stretch Yarns

Specially processed for quality Leotards,

Bathing Suit Fabrics, Girdle Fabrics,

etc. In Natural and all colors.

*Helanca*  
TYPE SW

The Helanca textured yarn with the

Bauble effect particularly designed

for Sweaters of all types.

Represented by **BRANT YARNS Inc.** 1412 Broadway, New York 18 LONgacre 5-3350



ble into  
and the  
nd clear  
ers and  
manual  
ing and  
rated in  
s on the  
ry cam

butted  
for  
se differ  
e height  
utts, as  
rd, (b)  
ear, (d)  
n cams,  
ndividu-  
ation of  
ddition,  
ial dis-  
timing  
stitch  
al con-  
on top  
o con-  
tucking  
eans of  
g cams  
tuating  
of low

Page)

On the Model 4/RD it is possible to change from knitting ordinary interlock, single pique or bourrelet fabric to the manufacture of double pique fabric without rearrangement of cylinder needles and also without interchange of dial cam sections. All the necessary alterations insofar as knitting is concerned can be effected easily and quickly by resetting the cam positioning levers on the outside of the cam box and on the top of the cam plate. Alteration of feed wheel units is common to all changes that affect rate of feed of yarn, irrespective of machine type. One kind of double pique fabric can be changed to the other without de-needling; but on this type of machine, as on all others in the non-jacquard double jersey range, the production of 2 x 2 interlock or any other kind of eightlock fabric involves a needle set-out peculiar to itself.

To make eightlock fabric in the form of 2 x 2 interlock long cylinder needles are placed in two adjacent tricks, short cylinder needles in the next two, and so on, alternately. Short dial needles are placed above long cylinder needles and long dial needles above short cylinder needles. As in 1 x 1 or ordinary interlock, long needles in cylinder and dial knit at odd numbered feeds and short needles in cylinder and dial knit at even numbered feeds. Timing is synchronized and interlock gating is preferable to rib gating.

Although primarily intended as jacquard jersey machines, the Wildt-Mellor Bromley 5/RGS models will meet requirements for conventional double jersey knitting when equipped with feed wheels, while at the same time giving a manufacturer the opportunity, should occasion arise, to anticipate possible changing trends of fashion in the dress trade. It must be emphasized in reference to the 5/RGS model and also the 6/LS/6 model that modern critical standards of quality in self-color double jersey fabrics are unlikely to be met unless feed wheels are used and, since the mechanism is not provided with these machines, it must be specially ordered for the purpose.

The 5/RGS/2 model, built in gauges up to 18 x 18 needles per inch and equipped with 24

feeds, has a four-color striping unit and a multi-step patterning drum at every second feed. Selections made by the drums at the odd numbered feeds can be automatically reversed at the even numbered feeds, the selection made at feed 1 being reversed at feed 2, the selection made at feed 3 reversed at feed 4, and so on. The knitting head is of compact design and has a two-tier construction which facilitates the mounting of the striping units and gives easy access to the peg drums. The automatic movements of the striping units and peg drums are controlled from a chain situated at the side of the machine. As many as 50 two-color designs, each comprising 12 rows of face stitches in two colors, can be set up on the patterning drums at one time, changes from one to another being effected by simply repositioning the drums.

Choice of count of yarn for double jersey knitting is independent on the type of machine on which fabric is knitted but depends upon the gauge of the machine and the weight of fabric required. According to whether fabric is required for coating cloth or dress material, the average Bradford worsted counts of all-wool yarns are 1/24s-1/26s for making double pique on 16 x 16 machines, 1/28s-1/32s for making double pique on 18 x 18 machines, and 1/36s for making single pique on 20 x 20 machines. The weight of fabric per unit area is dependent on the count used. With any given fabric, correctly constructed in regard to relative yarn length per course, any attempt to reduce weight with any one fixed count by lengthening the stitch throughout is to be deplored since it will undoubtedly detract from the quality, handle and appearance of the resultant fabric. In a typical case, Swiss double pique fabric made with synchronized timing from ends of 1/32s worsted yarn on a 30-inch 18 x 18 machine is finished 63-64 inches wide and weighs 15½ ounces per linear yard. The same kind of fabric knitted from Courtele yarn of 1/36s Bradford worsted count on a 30-inch 18 x 18 machine is taken from the machine 64 inches wide, relaxing to 56 inches and weighing 13 ounces per linear yard when finished.

THE "RELIABLE FELLOW" SAYS:

OVER  
**500**  
THREAD  
COLORS  
ALWAYS  
IN STOCK

**REMEMBER  
TO CALL  
RELIABLE**

40/3 Sewing Thread...  
Nylon Sewing Thread...  
Nylon Separating  
Thread... Dacron Sep-  
arating Thread...  
Soft & Merc. Ktg. Cot-  
ton... Kismet—Seam  
Binding... Pintickets  
—Labels—Tags...  
Elastic—Cleaning Fluid  
—Paper—Twine—  
Wax... Pressing &  
Cutting Supplies...

330-32 Bleecker St., B'klyn 37, N. Y. GLENMORE 6-4434-4435

**CALL  
US  
AT  
SUNRISE**

FOR TOP PRICES ON  
WOMEN'S AND GIRLS'

- SWEATERS
- KNIT SUITS
- BATHING SUITS
- POLO SHIRTS

WE'RE ALWAYS OPEN TO BUY  
WE ALWAYS BUY FAIR!

Sunrise Knitwear Co., 1384 Broadway, New York 18 • LA 4-9020

**BENTLEY**

THE  
OUTERWEAR MACHINE

"To pass all men's believing"

**COTTON**

FULL FASHION FULLY AUTOMATIC

**WE**

**BENTLEY**  
KNITTING  
MACHINERY

320-0

We claim so much for Bentley's UO/AE! Words can't describe; your eyes must tell you.

We didn't design this full-fashion fully automatic outerwear machine with the word unbelievable in mind. But that's the way it's turned out with the result we can't adequately describe its superlative features. What we're going to have to do then is simply say to you — see it!

See the fastest thing on a knitting room floor: See the exclusive styling features for producing the finest in outerwear fabrics and fibers.

**Ask us how this UO/AE can be seen . . . in action.**

**THE Bentley KNITTING MACHINERY ORGANIZATION, INC.**  
BLUE CROSS BUILDING • 31 CANAL STREET, PROVIDENCE 2, RHODE ISLAND, U.S.A.  
Southern Office: P. O. Box 1887, Liberty Life Building, Charlotte 1, N. C.  
In Canada: W. J. WESTAWAY COMPANY, LTD., Hamilton, Ontario

Don't Compromise . . . Don't Improvise . . . Don't Apologize . . . Knit It On A BENTLEY!

## THE INDUSTRY'S MARKET PLACE

Advertising rates: \$5.50 per column inch per insertion. Positions Wanted: \$5.00 per column inch per insertion. Minimum space — 2 inches. Ads for Monday's paper must be in by preceding Wednesday, 2 P.M. Please enclose payment with your order.

### MILL EQUIPMENT, MACHINERY FOR SALE

#### GET THE BEST DEAL

Before You Buy or Sell Used Machinery

WRITE — WIRE — TELEPHONE

### SPEIZMAN KNITTING MACHINE CORP.

350 Fifth Avenue  
SUITE 4923

New York 1, N.Y.  
Phone: PE 6-0930-1

#### COMMISSION NOVELTY TWISTING

Latest type novelty twisting equipment available for the weaving, hand knitting and machine knitting trades.

BOX 109

#### FOR SALE-CASH OR TERMS

- 2—Jacquard TJ, 28", 8½ cut
- 1—Queens model "B", 60", 10 cut
- 2—Jacquard Model A, 30", 7 cut, 6 feed, 2 col. str.
- 1—Columbia dry cleaning machine—Model "G"
- 2—Dubied, 60", 10 and 12 cut BARB, one practically new
- 2—Kastrinsky 54" & 60" Calendars, steam boxes front and back
- 1—McCreary Brush machine—72", practically new.
- 2—W & G Label sewers (1—Green, practically new)
- 2—Jacquard TA, 14" and 19", 8 cut
- 1—Grosser, 44", 10 cut, 4 bar, high and low butt needles
- 1—Dubied VV, 52", 12 cut
- 1—Jacquard 70 lever card punching machine
- 1—Lamb double head, 6 cut
- 4—Jacquard, LH, 30", 6, 7 and 8 cut, 6 feed with stripers
- 1—Jacquard, LA, 15", 8 cut, 372 needles
- 1—76", 1—78", 7 cut double jack Roba
- 2—30" X 60" steam tables with Efficiency Devices
- 1—Ainslie 60" brush machine
- 1—10 cut Stoll Border machine
- 1—Brinton 18", 24 feed, 792 needles
- 2—Glomarks, with 5 lamps
- 2—S&H rotary Jacquard, 32", 6 feed, 7 and 8 cut
- 5—Grosser, 3 cut, f.a., with American Grosser attachments, with the following needles in each machine: 66, 72, 78, 82 and 85 needles, 2½ gauge hooks.

### BEN WACHSMAN & CO.

Consultant for Appraisals and Liquidations

671 Bushwick Ave., Brooklyn 21, N.Y. GL 2-4936

#### WANTED

1—8 cut V-bed flat machine, 62" or 63" wide—high and low needles.

TARTAN KNITTING MILL  
3rd & Ontario Sts., Phila. 40, Pa.

#### WANTED

Supreme ROF 32 or 36 feeders 26"-18 cut or 24"-20 cut.

BOX 90J

#### WE WISH TO PURCHASE

Philadelphia Jacquard ML machines, 22", 11 cut. Also Philadelphia Jacquard MLW machines, 28", 11 cut.

BOX 100CC

#### BEST BUYS

- 1—Philip Machine, 18½ Cut, 32 Feed, 30"
- 1—S&W MFRC Mach., 16½ Cut, 32 Feed, 30"
- 3—Phila. Jacq. LH Mach., 6 & 8 Cut, 30", 6 Feed
- 1—Phila. Jacquard LA Mach., 6 Cut, 30", 6 Feed
- 2—Phila. Jacquard LA Mchs. 8 & 10 Cut, 30", 12 Feed
- 2—Phila. Jacq. TJ Mach., 7, 8 & 9 Cut, 28", 6 Feed
- 2—O.G. Interlock Mchs., 30", 14 Cut, 12 Feed
- 2—Phila. Jacq. TJ, 16" & 18", 7 & 8 Cut, 4 Feed, 4 Col Strip.
- 2—Phila. Jacquard TAI Mchs., 6 Cut, 30", 12 Feed
- 4—Phila. Jacquard TAI Mchs., 12, 13, 13½, 16½ Cut, 30", 12 Feed
- 4—Phila. Jacquard TA Mach., 10, 11, 12, 13 Cut, 30", 12 Feed
- 1—Philadelphia Jacquard MLW, 28", 11 Cut, 24 Feed, Wheels and Jacquards
- 10—Phila. Jacquard TA Mchs., 11" thru 19", 6 thru 12 Cut, 4 Feed
- 1—O. G. Multi-Feed Jersey, 1x1 Rib, 8 Cut, 36 Feed, 32"
- 3—Leighton Mchs., 22", 26", 28", 10 Cut, 6 Feed
- 3—Wildman PB2 Mach., 15", 17", 18", 8 & 10 Cut
- 7—Wildman Interlock Mach., 10 Cut, 19", 21", 22", 23", 20 Feed
- 1—Tricoma Double Lock Flat, 63", 12 Cut, 2 years old
- 3—Queens Model B Mchs., 60", 9, 10 & 12 Cut, High & Low Jacks
- 1—Dubied BAN Mach., 56", 12 Cut, Jacquards Front & Back
- 1—Dubied VV, Double Lock, 22", 12 Cut, 4 Bar
- 2—Roby Flat Links Double Jack, 7 Cut, 84" & 96"
- 1—Lamb Double-head Border Machine, 9 Cut
- 1—Universal Roto Coner Section, 20 Spindles
- 6—Huebsch & Cissel Tumbler Dryers
- 3—Marrow Mchs., Model M3DW1
- 1—Urish Glo-Mark Button Marking Mach.
- 3—Cutting Knives, Maimin & Eastman, Straight & Round
- 5—Looping Machines Model "P", 12, 14 & 15 Point
- 6—Steam Tables and Pressing Machines, 30x60, 24x48, 24x60
- 2—Kastrinsky Calander Machines, 36" & 60", Late Style

*Joseph Kopelowitz, Inc.*

600 Broadway, Brooklyn 6, N. Y. EVergreen 7-1145

# AUCTION SALE

## MAC M. ROTHKOPF & GENE A. ROTHKOPF, AUCTIONEERS

WILL SELL AT **PUBLIC AUCTION**  
on **TUESDAY, MARCH 7th, 1961**  
AT 10:30 A.M.

**SCOT MATES SPORTSWEAR CO.**  
at 70-17 83 STREET, GLENDALE 27, NEW YORK

(near Cooper Avenue)

Mill phone: TW 4-7111

### MACHINERY AND EQUIPMENT AS FOLLOWS: KNITTING MACHINERY

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1—Dubied Bax Flat, F. A., 55", 12 c, #348503 &amp; motor</li> <li>1—Dubied Flat, 4B, F. A., 40", 12 c, #98536 &amp; motor</li> <li>1—Dubied Flat, 4B, F. A., 44", 8 c, #105147 &amp; motor</li> <li>1—Dubied Flat, Supreme Attach, 24", 4B, 12 c, F. A. #88387 &amp; motor</li> <li>1—Grosser Border Machine, 2 Carrier, 20", 7 c #380147 &amp; motor</li> <li>1—Ainslie Border Machine, 2 Head, 8 cut #9767 &amp; motor</li> <li>1—4" Flat Border machine, 10 c, &amp; motor</li> <li>1—Phila. Jacq. TA, 14", 4 feed, 12 c, #3514 &amp; motor</li> <li>1—Phila. Jacq. TA, 15", 4 feed, 12 c, #3522 &amp; motor</li> <li>1—Phila. Jacq. TA, 16", 4 feed, 12 c, #5416 &amp; motor</li> <li>1—Phila. Jacq. TA, 17", 4 feed, 12 c, #4148 &amp; motor</li> </ul> | <ul style="list-style-type: none"> <li>1—Phila. Jacq. TA, 18", 4 feed, 12 c, #4529 &amp; motor</li> <li>1—Phila. Jacq. TA, 18", 4 feed, 12 c, #4538 &amp; motor</li> <li>1—Phila. Jacq. TA, 14", 4 feed, 8 c, #3439 &amp; motor</li> <li>1—Phila. Jacq. TA, 16", 4 feed, 8 c, #4055 &amp; motor</li> <li>1—Brinton, 18" 8F, striper, 12 c, 16 end elec. stop motion &amp; motor</li> <li>1—Ordinance Gauge OT, 18", 12 cut, 8 feed, &amp; motor #PT345</li> <li>1—Phila. Jacq. T.J. 22", 6 feed, 8 cut, 4 strip., 8 cut &amp; motor</li> <li>1—Phila. Jacq. 28", 6 feed, 7 cut, 6 strip., #736, with motor</li> <li>1—Ordinance Gauge OT, 22", 8 feed, 8 strip., extra 12 cut cylinder &amp; motor, #OT346</li> <li>1—Grosser flat machine, 24", 3 bar, 8 cut, F.A. Roby Acrynski attach. #48939 &amp; motor</li> </ul> |
|---|---|

### SEWING MACHINERY

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1—Columbia Blind Stitch, 300-S #24332, &amp; stand &amp; motor</li> <li>1—Lewis Mock Fashion, 43-27 #432377 &amp; power table</li> <li>1—Merraw A3DW1, #99187 &amp; power table</li> <li>1—Union Spec. Cover 11-900 differential, #591377 &amp; power table</li> <li>1—Union Spec. Cover 11-900 differential, #200878 &amp; power table</li> <li>1—Singer Sewer 251-2, #AM 500162 &amp; power table</li> <li>1—Singer Sewer 251-2, #AM501439 &amp; power table</li> <li>1—Singer Overlock 246-3 #AJ, 939022 &amp; power table</li> <li>1—Singer Overlock 246-13, #AL829258 &amp; power table</li> <li>1—Singer Overlock 246-13, #AL808955 &amp; power table</li> <li>1—Singer Overlock 246-3, #AJ822006 &amp; power table</li> <li>1—Pfaff Bar tacker, #5865911 &amp; power table</li> <li>1—Lewis label 160-2, #J1142 &amp; power table</li> <li>1—Wilcox &amp; Gibbs label machine, #734862 &amp; power table</li> </ul> | <ul style="list-style-type: none"> <li>1—Singer Sewer 241-3 #AG-457993 &amp; power table</li> <li>1—Singer Sewer 241-11 #AJ 041861 &amp; power table</li> <li>1—Singer Overlock #246-13, #AK850978 &amp; power table</li> <li>1—Singer Overlock #246-13, #AL 522678 &amp; power table</li> <li>1—Singer Overlock #246-13, #AM358482 &amp; power table</li> <li>1—Looper Model P, 14 pt. #3131P</li> <li>1—Looper Model P, 15 pt. #5295P</li> <li>1—Double Looper Power Table</li> <li>1—Setco looper 8 pt. #229455 &amp; power table</li> <li>1—Looper Model P, 15 pt. #4192P &amp; power table</li> <li>1—Columbia Blind Stitch 88B #9017 &amp; power table</li> <li>1—Singer Button Sewer, 175-60 AG447944 &amp; Stand &amp; Motor</li> <li>1—Chandler Button Sewer, 554-50 #11255 &amp; Stand &amp; Motor</li> <li>1—Reece Button-hole, 52 #4695 &amp; Stand &amp; Motor</li> <li>1—Singer Button-hole 71-48 #W456361 &amp; Stand &amp; Motor</li> </ul> |
|---|---|

### MISCELLANEOUS EQUIPMENT

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>1—Todd Check Signer</li> <li>1—Eastman Round knife cutting machine 5 1/4", 154 #52L7706</li> <li>1—Eastman Round knife cutting machine, 5 1/4", 154 #52H9201</li> <li>1—Glow Marker Machine &amp; Lights</li> <li>1—International Time clock, full auto., Elec., bell ringer</li> <li>8—steel lockers</li> <li>3—30 x 48 Steam tables each with efficiency device</li> <li>3—30 x 60 Steam tables</li> <li>1—54" McCreery Brush machine &amp; 2 HP Motor</li> <li>2—Exhaust fans</li> <li>2—Wall clocks elec.</li> <li>4—Asst. table fans</li> <li>1—Curtis Compressor 1 1/2 H.P. #CU906</li> <li>2—Universal Backwinders &amp; Motor, 1 Drive</li> <li>14—8 bushel Canvas Baskets</li> <li>1—7 HP Boiler</li> </ul> | <ul style="list-style-type: none"> <li>3—20 bushel Canvas Baskets</li> <li>1—Refrigerator</li> <li>1—Hand truck</li> <li>1—Floor truck</li> <li>3—Ladders</li> <li>4—Waste cans</li> <li>2—Floor fans-Pedestal</li> <li>1—Yarn scale</li> <li>1—Platford scale</li> <li>16—steel chairs</li> <li>19—Steel work platforms</li> <li>12—Wood chairs</li> <li>1—Steel cutting table 72" x 32"</li> <li>25—Assorted wood work tables</li> <li>2—Fire extinguishers</li> <li>1—Singer Knife Sharpener</li> <li>1—Grinder &amp; motor</li> <li>1—vise</li> <li>2—Reelites</li> </ul> | <ul style="list-style-type: none"> <li>2—Dennison Pin Ticket Machines</li> <li>7—Fluorescent Fixtures &amp; Bulbs, 8"</li> <li>47—Fluorescent Fixtures &amp; Bulbs, 4"</li> <li>1—Wood cabinet</li> <li>2—Steel Work tables</li> <li>9—sections steel shelving</li> <li>1—Oak Desk &amp; Chair</li> <li>3—steel file cabinets with lock</li> <li>2—small desk steel boxes</li> <li>1—Gum tape machine, #84261</li> <li>1—Walnut conference table</li> <li>4—Arm Chairs</li> <li>1—bookcase</li> <li>1—typewriter desk</li> <li>1—Underwood typewriter, #S115871147</li> <li>1—Walnut office desk &amp; lamp &amp; chair</li> <li>1—Speedwrite checkwriter</li> <li>1—Burroughs Adding Machine, #p171979 &amp; steel table</li> <li>1—Two-door steel stationery cabinet</li> </ul> |
|---|---|---|

Including all miscellaneous needles, parts and factory supplies located at the premises.

**PLANT OPEN FOR INSPECTION UNTIL DATE OF SALE**

For complete information, contact

## STEINBERG BROTHERS

174 Scholes Street, Brooklyn 6, N. Y.  
STagg 2-2900

## MAC M. ROTHKOPF

317 Bushwick Ave., Brooklyn 6, N. Y.  
HYacinth 7-1486



**FOR SALE**

New Hand Flat Knitting Machines  
3 to 14 cut, various widths

**TRICOMA, INC.**

Showroom.

303 Stockholm St.  
Brooklyn 27, N. Y.  
Glenmore 6-0205

7504 Empire State Bldg.  
New York 1, N. Y.  
Wisconsin 7-7466

**OPEN TO BUY**

10 cut flat knitting machines. Stolls or Universals.

**BOX 100C**

**WANTED**

24 or 32 spindle Schweiter  
Winding machine in good condition.

**BOX 105**

**WANTED**

TAI or TJI 5 or 6 cut.

**BOX 100X**

**FINISHING PLANT****FOR SALE OR LEASE**

Capable of finishing 500 dozen sweaters a week.

**BOX 100K**

**YARNS WANTED, FOR SALE****FOR SALE****ELASTIC YARN FOR KNITTING**

• All Sizes and Colors



**EDFORD YARN CO.**  
79 Clifton Place  
Brooklyn, N. Y.  
MAin 2-1340

**WILSON YARN CORP.**

141 Wilson Ave., Brooklyn 37, N.Y.

GL 6-9686

H. BERMAN

WE PAY  
TOP PRICES  
FOR  
SURPLUS YARN

We Buy & Sell  
**WORSTED & SYNTHETIC  
YARNS**

We carry in stock  
all colors and  
all sizes for the  
knitting trade!

**SURPLUS YARNS WANTED**

Worsted • Zephyr  
Synthetics • Cotton

We always carry a large stock of yarns, dyed on  
cones for immediate use.

**CALL EV 8-8277**

**BEN BALIF**

686 Flushing Ave.  
Brooklyn 6, N. Y.

**CENTURY  
YARN CO.**

**FOR THE BEST RESULTS  
USE A MARKET PLACE AD!**

**NEED CASH FAST?****YARN CLOSEOUTS WANTED**

Ben-Lon and Orion Acrylic Small or Large Lots  
**RIDGEWOOD YARN**  
EV. 2-8002

**WE BUY AND SELL**

Worsted — Synthetics — Blends

**AT BEST PRICES!**

**EDFORD YARN CO.**

MAin 2-1340  
Brooklyn, N. Y.  
79 Clifton Place

**WANTED**

**COTTON, WOOL, WORSTED & SYNTHETIC  
YARNS**

**HERMAN KASLOFF**

868 N. Fourth St., Phila. 23, Pa. MAarket 7-0997

**CONTRACT WORK—CONTRACTORS WANTED****COMMISSION SPINNING WANTED**

We are open for commission spinning on the woolen system, approximately 15,000 lbs. per week. Any sizes from 1-7 run. We are accustomed to spin Orlon (picked or garnetted), lambs wool, lambs wool/Orlon blends, nylon, etc. We are well equipped. Our mill is located in southern New England. Write:

**BOX 80P**

**CONTRACTING WORK WANTED**

Ladies' better skirts or shorts. Non-union shop in Riverside, New Jersey.

**BOX 100V**

**HELP WANTED**

Leading midwest branded manufacturer of men's and boys' underwear, sleepwear and knit sport shirts, has opening for:

**MERCHANDISE MANAGER OF BOYS' DIVISION**

Excellent opportunity for aggressive, younger man with successful background of merchandising, styling and manufacturing in the branded knit boyswear field. Should have knowledge of department store operation. Willing to relocate. Submit detailed resume and salary history to:

**BOX 84**

**WANTED**

Experienced Knitter-Mechanic on Leighton racks, Stafford & Holt and Supremes. Very good opportunity for the right man.

**BOX 80G**

**WANTED**

Textile chemists by large New England circular knit plant for Laboratory and Production Departments. Please send complete resumes to:

**BOX 75**



**WANTED TOP MECHANIC**

on LH, TA, TJ and flat machines, for one of the finest and longest established knitting mills in Brooklyn.

Possible Partnership With Very Nominal Investment.  
Lifetime chance for only Top Man.

TW 7-4864

PR 5-4097

BOX 100Z

**WANTED****Assistant Production Supervisor**

Knit goods experience necessary.  
Supervisory experience optional.  
This is a position for advancement  
for those applying who have technical  
quality, ability and experience.

BOX 106

**KNITTING MACHINE MECHANIC WANTED**

for Phila. TJ, TA, TAI, LH machines, to take full charge of department. Must be production-minded. Only top quality person will be considered. Excellent salary and working conditions.

BOX 100B

**DESIGNER-KNITTED FABRICS**

Excellent opportunity for individual with experience in designing knitted fabrics to join progressive, expanding, completely integrated manufacturer of men's and boys' sport shirts. Location: Eastern Pennsylvania. Give complete details of experience.

BOX 510

**SUPERVISOR**

Finishing Department men's and boy's knitted sportswear. Must have experience in supervising all operations from pressing to boxing. Large volume. Willing to relocate. Unusual opportunity with one of major firms in industry. Give full details of experience.

BOX 100

**KNITTER-MECHANIC WANTED**

Experienced on Supreme, ROF and automatic machines. Top salary for top man. New York area. Send complete resume with first letter. All replies confidential.

BOX 77

**WANTED**

Supervisor for Napping-Brushing-Dry Finishing Dept. Must be thoroughly experienced and have good common sense. We are circular knitters located in New England, and offer an excellent opportunity to a good department leader.

BOX 74

**WANTED**

Foreman or forelady for sewing department in mill making bulky sweaters.

BOX 100M

**WANTED**

Knitter-mechanic on new type circular machines.

BOX 90L

**KNITTER-MECHANIC WANTED**

on PR-19 machines, able to style and take full charge of a progressive plant. Permanent position and good opportunity for the right man. Give full details as to experience, age and salary.

BOX 101

**WANTED—EXPERIENCED FORELADY**

To take charge of sewing and finishing floor.

Our large, modern mill produces high quality men's sweaters only. When replying, please give past experience, references, and other pertinent facts.

**THE LION KNITTING MILLS COMPANY**  
3256 W. 25th St., Cleveland 9, Ohio.

**KNITTER-MECHANIC WANTED**

on PR-19 machines. Able to style and take full charge of New York plant. Permanent position and good opportunity for the right man.

BOX 88

**EXECUTIVE ASSISTANT AVAILABLE**

many years of European and American managerial experience in CREATION of all kinds of knitted fabrics and HIGH STANDARD FASHION ladies' garments. Also PROMOTER and EXPORTER with best connections in Europe. New York resident, but would relocate.

BOX 100N

**PRODUCTION MANAGER—COORDINATOR**

Presently employed — Practical production and administrative experience with mill in all phases of production from knitting to finished garment: quality control, yarns, etc. Desires position as Production Man or Production Coordinator. Manhattan or New Jersey location preferred.

BOX 107

**POSITIONS WANTED**

**DESIGNER-STYLIST****Artistic - Creative - Imaginative**

Has extensive experience with top quality mills.  
All knits. Seeks connection with first class house.

**BOX 100F****PRODUCTION FOREMAN SEEKS POSITION**

Over 20 years experience in men's, ladies' and boys' sweaters and sportswear. Can take care of production after knitting to the finished product. Also experienced in pattern making and designing.

**BOX 100D****AVAILABLE**

Mechanic, designer, machinist. LH, TJ, TAI, flats, Supremes, Brintons. Can make samples, design trimmings and cloth.  
Part time.

**BOX 100W****FACTORY FOREMAN  
SEEKS POSITION AS PRODUCTION MANAGER**

25 years experience in men's, ladies' and boys' sweaters. Ability for quality control and full knowledge of knitting, cutting, pattern making and finishing. Will relocate if necessary.

**BOX 100AA****KNITTER AND EXPERT MECHANIC**

Wishes position. TAI, LH Wildman etc. PR19 Brinton, MLW, Morat and other pattern wheels. Accustomed night shift. Expert fine gauges, bulky, etc. 35 years experience all types of circular and flat power, including hand machines. References.

**BOX 100BB****BUSINESS OPPORTUNITIES****PARTNER WANTED**

Knitter mechanic on the West Coast, with established mill, seeks partner with additional flat or circular equipment and capital for expanding business.

**BOX 100L****A GOODLY SUM AVAILABLE**

for investment with active participation in jobbing or contracting in knitwear field. 20 years experience in this field backs investment sum.

**BOX 108****REPRESENTATIVES WANTED, LINES WANTED****SELLING AGENTS WANTED**

by old established mill, well rated for the out-of-town jobbing trade. We manufacture men's and ladies' bulkies.

**BOX 100H****LINES WANTED**

Man with many years experience in knitting industry, who is familiar with knitting trade in Philadelphia area, desires to represent yarn manufacturers, piece goods or any other product pertaining to sweaters or bathing suits, in the Philadelphia area.

**BOX 104****TRADE WANTS**

RATES: one insertion—35 cents per word. Words set completely in capitals — 40 cents per word. Box numbers count as two words. Minimum cost of advertisement—\$5.50. Minimum cost of Positions Wanted advertisements — \$5.00. Trade Wants for Monday's paper must be in by preceding Wednesday. 2 P.M. Please enclose payment with your order.

**CONTRACT WORK WANTED:**  
MILL PRODUCING MEN'S, BOYS' AND BULKY KNITS, CARDIGANS, SLIPOVERS, SHAWL, HIGH V, BOATNECK, ETC., ALSO KNITTING ON H.C. OR NAILHEAD STITCHES. BOX 102.

**CONTRACTOR WANTS WORK.**  
HAVE EXCELLENT QUALITY CONTROLLED SEWING OPERATION ON ALL KINDS OF KNITWEAR AND SPORTSWEAR. BOX 103.

Contract work wanted—Orlon, Ban-Lon, bulky ladies' and children's sweaters. Finishing only. Workmanship guaranteed. Box 100A.

Contract work wanted on all types of bulky and fine knit fabrics. Equipped for large production. Box 100E.

**WANTED: FACTORY MANAGER**  
FOR MEN'S AND LADIES' WEAR — KNITTING, SEWING, CUT-

TING, PATTERN MAKING, SAMPLE MAKING, QUALITY PRODUCTION CONTROL, SUPERVISOR, TECHNICALLY TRAINED. SOUTHERN CALIFORNIA LOCATION. YEAR ROUND ENTERPRISE. REPLIES CONFIDENTIAL. BOX 100G.

Work wanted on sweaters of Ban-Lon and Orlon and bulkies, on Supreme 5 cut machines. Ladies' and children's. Box 100J.

Contractor—bulky sweaters—4 cut Universals—seeks additional work. Box 100P.

Sewing room foreman available on ladies' sweaters and suits. Can get quality production. New York area. Box 100Q.

Wanted: Contract knitting on 4 cut Universal, Tricoma and Dubied machines. Box 100R.

Wanted: LA 6 cut machines. Box 100T.

**CLOSE-OUTS WANTED****CLOSE-OUTS WANTED**

CASH PAID for surplus stocks of Sweaters and Bathing Suits

**BERNETTE TEXTILE COMPANY**

101 W. 31 St., New York City

BRyant 9-5526-7

**KNIT FABRICS, CLOSEOUTS WANTED**

Cottons, Jerseys, Nylon Fleece, Lastex, Novelties, Metallics.

Woven Piece Goods and Remnants. We pay cash.

**CHARMKNIT CORP., 82 Franklin St., N.Y.C. WA 5-6828**

**SERVICES, SUPPLIES FOR SALE****SAVE MONEY ON POLYETHYLENE BAGS**

9½ x 13—G. 001 @ \$5.15 per M—G. 00075 @ \$4.50 per M

11 x 14—G. 001 @ \$6.35 per M—G. 00075 @ \$5.25 per M

**LUCKY POLYETHYLENE MFG. CO**

454 Berry St., Brooklyn 11, N. Y. EVergreen 8-5403

**REAL ESTATE****1384 BROADWAY**

2,500 sq. ft. completely furnished showroom, offices and stock room. Entire loft air-conditioned. Excellent rental. Ready for immediate occupancy.

**MR. HAHN BRyant 9-4979**

**KNITTED OUTERWEAR TIMES**

386 Park Ave. South, New York 16, N. Y.

Please enter our subscription to the Knitted Outerwear Times for one year. Check is enclosed. Domestic — \$10.00 per year; Canada-Foreign — \$15.00 per year.

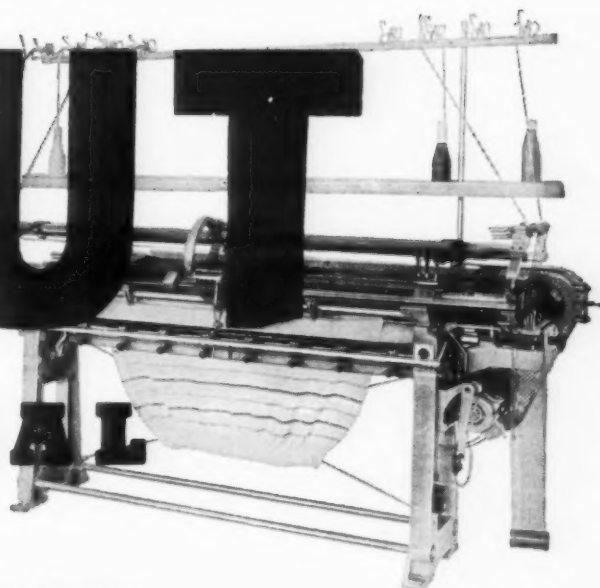
Name.....

Address.....

**STONEHILL**  
**IS FIRST AGAIN ...**  
**WITH THE NEW**

**3CUT**

**UNIVERSAL**



**SUPRAMAT "A"**

**THE MOST ADVANCED, VERSATILE**  
**BULKY MACHINE IN THE WORLD!**

SOLE AGENTS IN U.S.A. AND CANADA

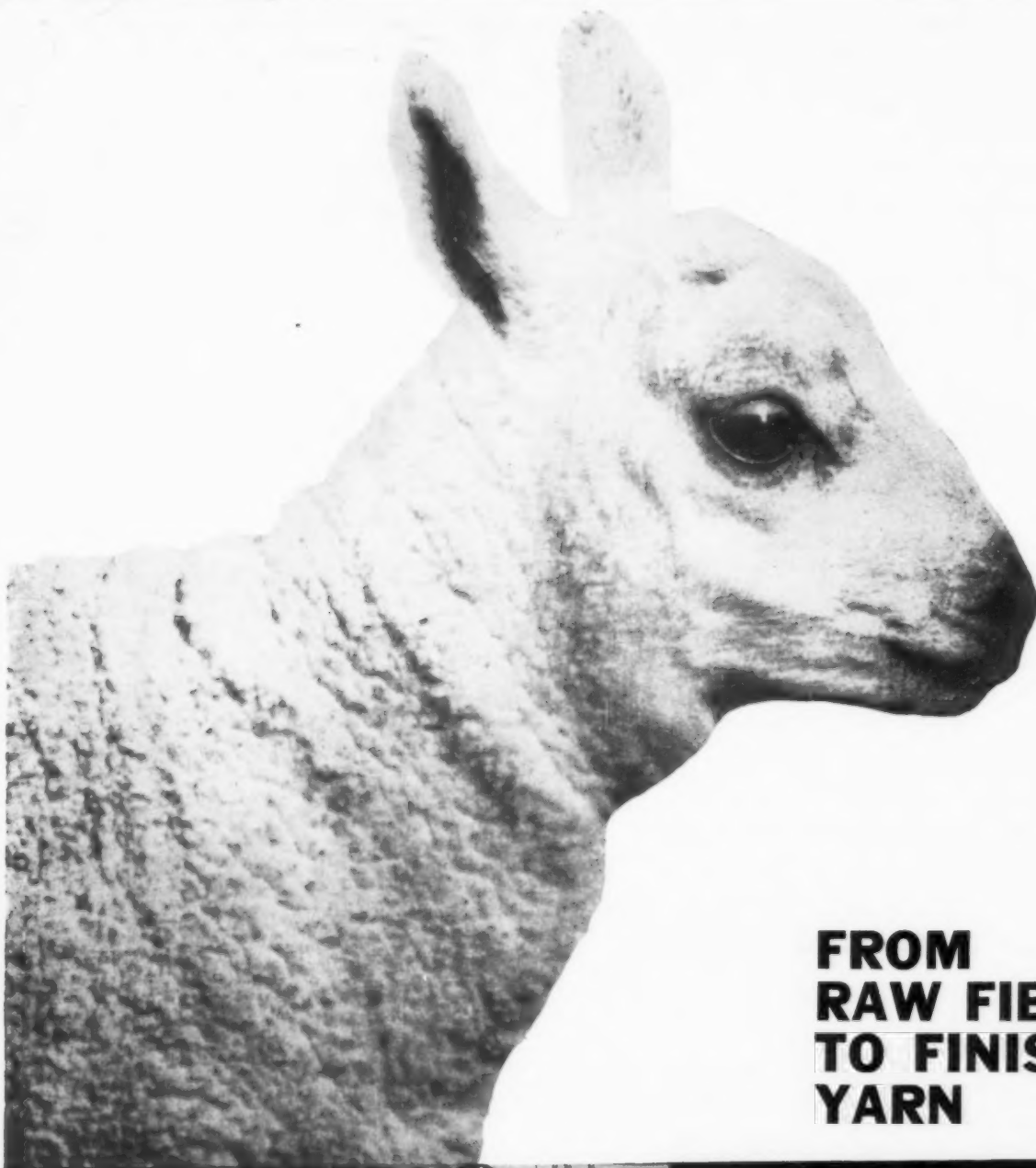
**STONEHILL KNITTING MACHINES CORP.**

174 BROADWAY STREET • BROOKLYN 8, N. Y.

SALES — PARTS — SERVICE

STAMP 2-2900





**FROM  
RAW FIBER  
TO FINISHED  
YARN**



**WOONSOCKET  
SPINNING CO.**

**When you buy from Woonsocket you are buying the best!** Whether it be cashmere, camels hair, angora, fur blends, mohair, lambs wool or other specialty yarn, Woonsocket begins with the world's finest fibers. Woonsocket processes them in its own mills, under highly scientific control until the yarn is delivered promptly to your factory. Thus you are assured of an adaptable resource, able to meet the constantly changing demands of men's and women's fashions.

Distributed by **AMICALE YARNS, INC.**, 511 Fifth Ave., New York 17, MUrray Hill 2-1655 • A. M. Krasnoff, 1 Belmont Ave., Bala Cynwyd, Pa., MOhawk 4-6345 • Edgar Worth, 1511 W. Florence Ave., Inglewood, Calif., OREGON 8-4293 • Textile Yarn Co., 222 W. Adams St., Chicago 6, Ill., DEarborn 2-5230 • Spun by **WOONSOCKET SPINNING CO.**, 115 Ricard St., Woonsocket, Rhode Island, POplar 9-3100



TIMES

era, fur  
et proo  
y. Thun  
shiona

Cynwyd  
ams St.  
r 9-3100

K... Times